

# monitoring the future occasional paper series

#### Paper 92

# DEMOGRAPHIC SUBGROUP TRENDS AMONG ADOLESCENTS IN THE USE OF VARIOUS LICIT AND ILLICIT DRUGS 1975–2018

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Tables are listed by drug and prevalence period. For each drug and prevalence period, trend data is displayed separately for grades 8, 10, and 12 unless otherwise noted.

Drugs	Prevalence	
Any Illicit Drug	Annual	462
Any Illicit Drug other than Marijuana	Annual	469
Marijuana	Lifetime	476
	Annual	483
	30-Day	490
	30-Day of Daily Use	497
Synthetic Marijuana	Annual	
Inhalants	Annual	507
Hallucinogens	Annual	514
LSD	Annual	521
Hallucinogens other than LSD	Annual	528
MDMA (Ecstasy, Molly)	Annual	535
Salvia	Annual	541
Cocaine	Annual	544
Crack	Annual	551
Other Cocaine	Annual	558
Heroin	Annual	565
Heroin with a Needle	Annual	572
Heroin without a Needle	Annual	
Narcotics other than Heroin OxyContin	Annual, Grade 12 only	
Vicodin	Annual	
Amphetamines	Annual	
Ritalin	Annual	593
Adderall	Annual	
Provigil	Annual	
Methamphetamine	Annual, Grade 12 only	
Crystal Methamphetamine (Ice)	Annual	
Bath Salts (Synthetic Stimulants)	Annual, Grade 12 only	
Sedatives (Barbiturates)	Annual	
Tranquilizers	Annual, Grade 12 only	
Any Prescription Drug without Medical	Annual	
Supervision	Annual, Grade 12 only	
Over-the-Counter Cough/Cold	1 1111 0012, G1 000 1 2 0111, 11111 1111 1111 1111 111	020
Medicines Rohypnol	Annual	629
Alcohol	Annual	
	30-Day	
Been Drunk	30-Day of Daily Use	
Been Drunk	30-Day	
	2-Week of 5+ Drinks in a Row	
Beer	2-Week of 10+ Drinks in a Row	
	30-Day	
Liquor	2-Week of 5+ Drinks in a Row	
Elquoi	30-Day, Grade 12 only	
Wine	2-Week of 5+ Drinks in a Row, Grade 12 only	
	30-Day, Grade 12 only	

	2-Week of 5+ Drinks in a Row, Grade 12 only	690
Wine Coolers 30-Day		
	2-Week of 5+ Drinks in a Row	
Flavored Alcoholic Beverages Alcoholic	30-Day	701
Beverages containing Caffeine	Annual	
Cigarettes	30-Day	707
·	30-Day of Daily Use	
	30-Day of Half Pack a Day	
Tobacco Using Hookah	Annual, Grade 12 only	728
Small Cigars	Annual, Grade 12 only	729
Flavored Little Cigars or Cigarillos	30-Day	730
Regular Little Cigars or Cigarillos Large	30-Day	
Cigars	30-Day	
Any Vaping	30-Day	733
Vaping Nicotine	30-Day	
Vaping Marijuana	30-Day	735
Vaping Just Flavoring	30-Day	736
Smokeless Tobacco	30-Day	737
	30-Day of Daily Use	
Dissolvable Tobacco Products	Annual	751
Snus	Annual	754
Steroids	Annual	757
Marijuana	Lifetime	763
Nonprescription Diet Pills	Annual	766
Nonprescription Stay-Awake Pills	Annual	769
Stimulant-Type ADHD Drugs	Lifetime	772
	Current	775
Non-Stimulant-Type ADHD Drugs	Lifetime	778
	Current	781
Either Stimulant-Type or Non-	Lifetime	784
Stimulant-Type ADHD Drugs	Current	787
	Grade 8	
Approximate Weighted Ns by Subgroups in C	Grade 10	792
Approximate Weighted Ns by Subgroups in C	Grade 12	794

#### INTRODUCTION

This occasional paper presents national demographic subgroup data for the 1975-2018 Monitoring the Future (MTF) national survey results on 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> graders' use of drugs, alcohol, and tobacco. MTF is funded by the National Institute on Drug Abuse at the National Institutes of Health under a series of investigator-initiated, competitive research grants to the University of Michigan. The study covers all major classes of illicit and licit psychoactive drugs for an array of population subgroups. The 2018 subgroup data presented here accompany the *Monitoring the Future National Survey Results on Drug Use: 1975-2018: Overview, Key Findings on Adolescent Drug Use*<sup>1</sup> and the *Monitoring the Future National Survey Results on Drug Use, 1975-2018: Volume I, Secondary School Students.*<sup>2</sup> Prior to 2014 subgroup data were available in tabular form only in Appendices B and D of the relevant year's *Volume I.*<sup>3</sup> Since 2014, the MTF subgroup definitions and data have been presented in this series of occasional papers, in both tables *and* figures to facilitate the examination and interpretation of trend data.

The Overview of Key Findings presents trends in prevalence, perceived risk, disapproval, and perceived availability for most drugs under study and a brief description of subgroup differences. Volume I contains a description of MTF's design and purposes, as well as extended reporting on substance use of all kinds—licit and illicit—and a number of related factors, such as attitudes and beliefs about drugs, age of initiation, noncontinuation of drug use, perceived availability, relevant conditions in the social environment, history of daily marijuana use, use of drugs for the treatment of ADHD, and sources of prescription drugs used outside of medical supervision.

The trends offered here in tabular and graphic forms cover demographic subgroups based on:

- Gender
- College plans
- Region of the country
- Population density
- Education level of the parents (a proxy for socioeconomic level)
- Racial/ethnic identification

Detailed descriptions of the demographic categories are provided in the section starting on page 385 of this paper.

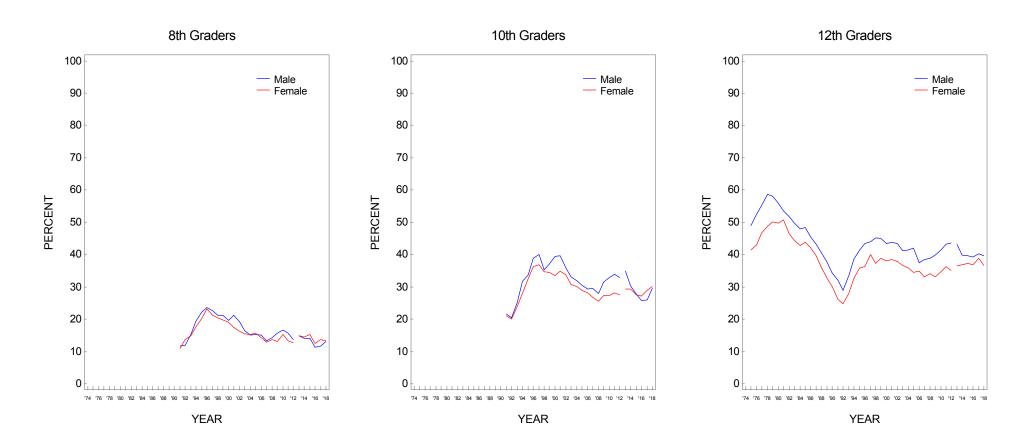
The graphs and tables in this occasional paper present trend data for 8<sup>th</sup>-, 10<sup>th</sup>-, and 12<sup>th</sup>-grade respondents separately. Data for 12<sup>th</sup> grade begins with 1975, the first year in which a nationally representative sample of high school seniors was surveyed. Data for 8<sup>th</sup> and 10<sup>th</sup> grades begin with 1991, when the study's nationally representative annual surveys were expanded to include those lower grade levels.

<sup>&</sup>lt;sup>1</sup>Johnston, L. D., Miech, R. A.,, O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Patrick, M. E. (2019). *Monitoring the Future national survey results on drug use, 1975-2018: Overview, key findings on adolescent drug use.* Ann Arbor: Institute for Social Research, The University of Michigan.

<sup>&</sup>lt;sup>2</sup>Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Patrick, M. E. (2018). *Monitoring the Future national survey results on drug use, 1975-2017: Volume I, Secondary school students*. Ann Arbor: Institute for Social Research, The University of Michigan.

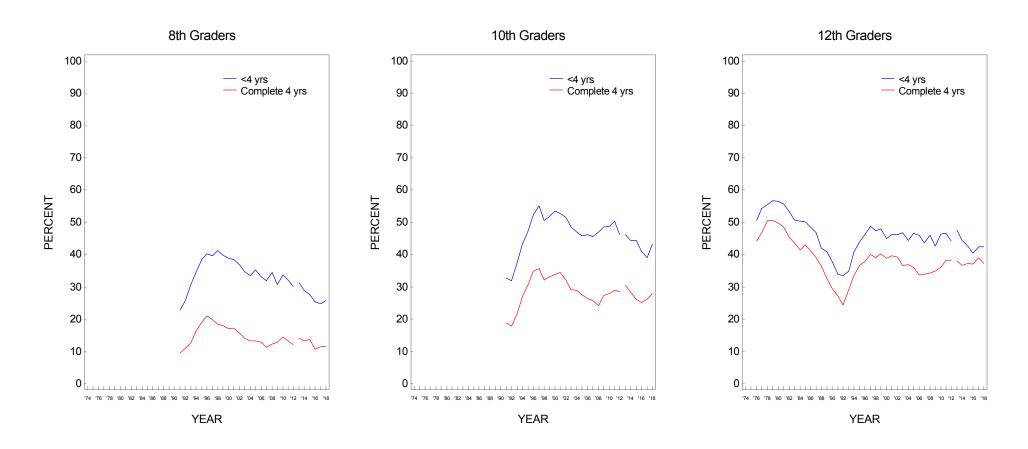
<sup>&</sup>lt;sup>3</sup>Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Miech, R. A. (2016 and preceding years). *Monitoring the Future national survey results on drug use, 1975-2015: Volume I, Secondary school students.* Ann Arbor: Institute for Social Research, The University of Michigan.

FIGURE 1
Any Illicit Drug:\* Trends in Annual Prevalence by Gender



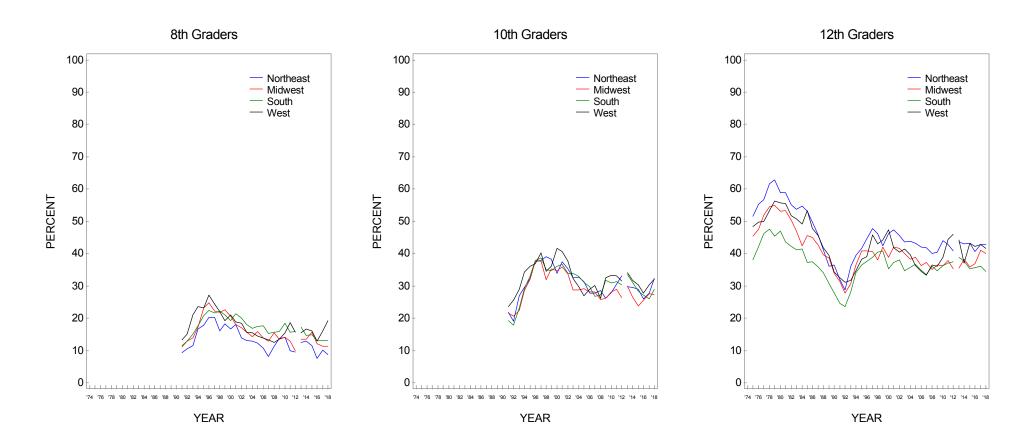
<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 2
Any Illicit Drug:\* Trends in Annual Prevalence by College Plans



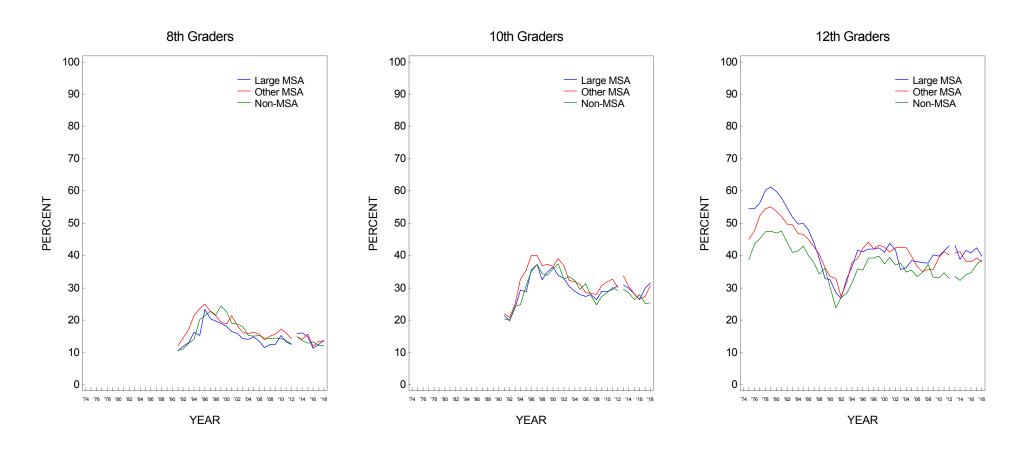
<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 3
Any Illicit Drug:\* Trends in Annual Prevalence by Region



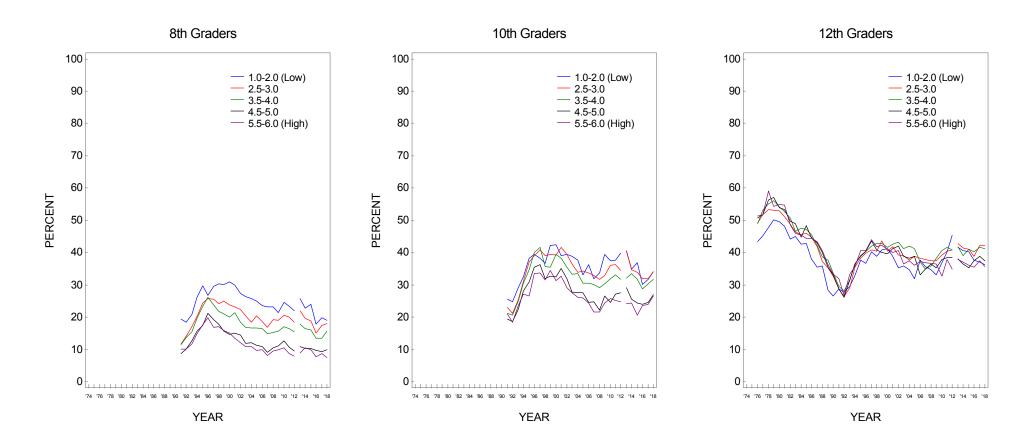
<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 4
Any Illicit Drug:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

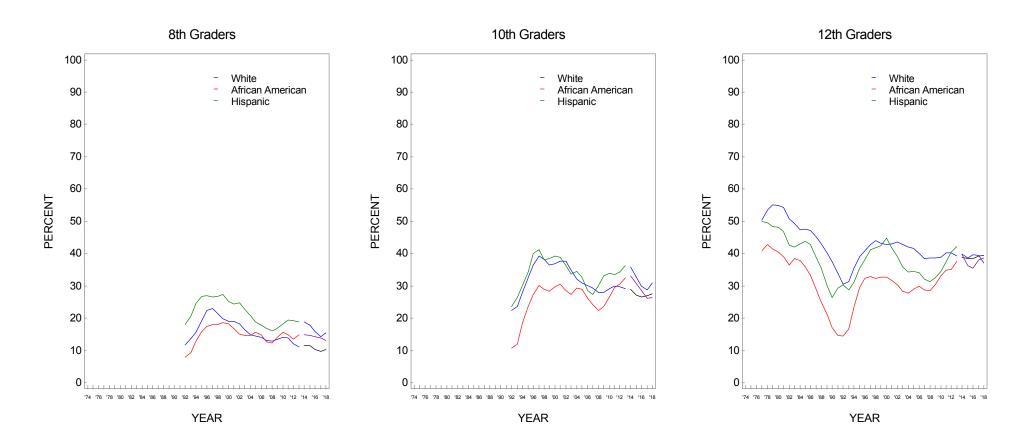
FIGURE 5
Any Illicit Drug:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

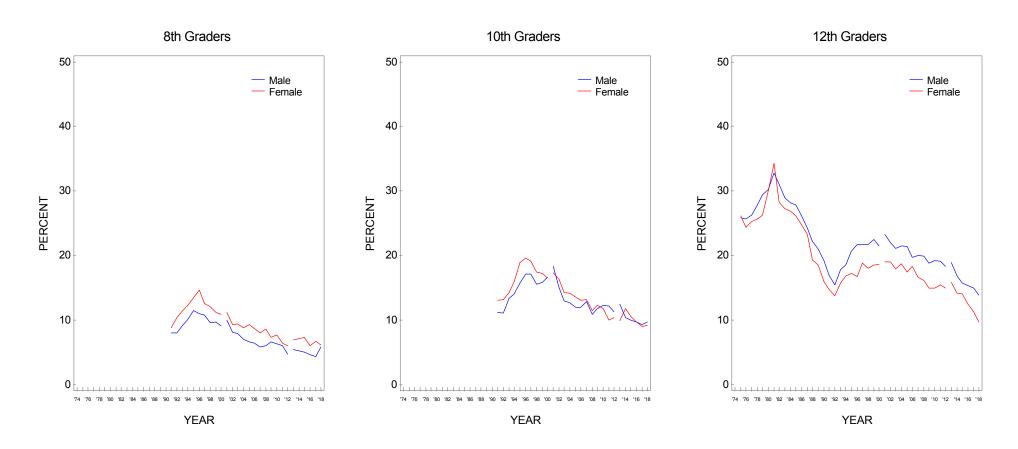
FIGURE 6
Any Illicit Drug\*: Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

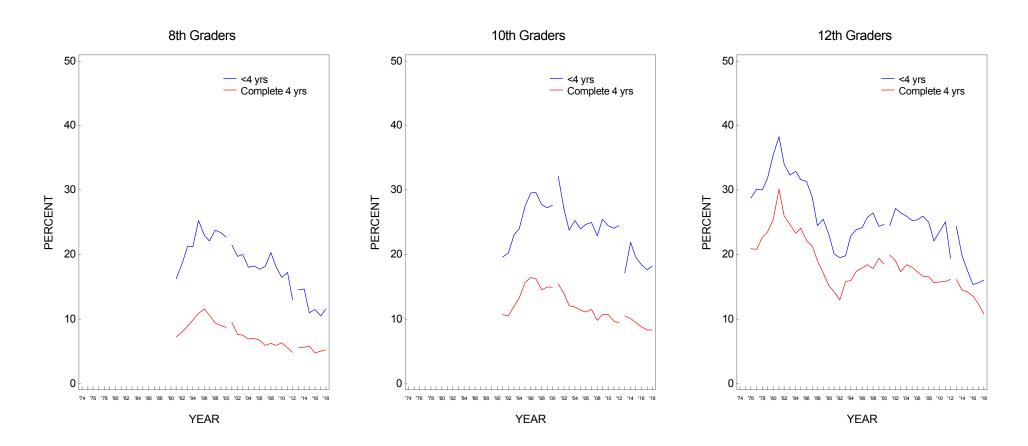
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 7
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Gender



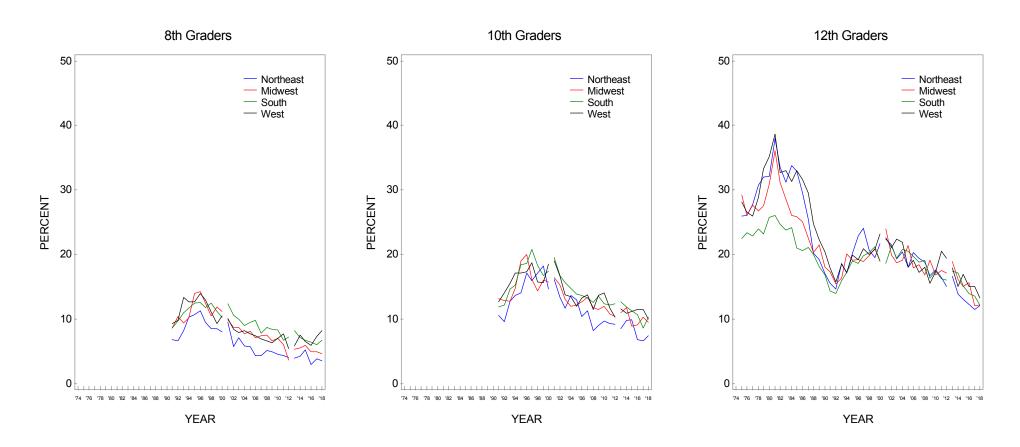
<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 8
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by College Plans



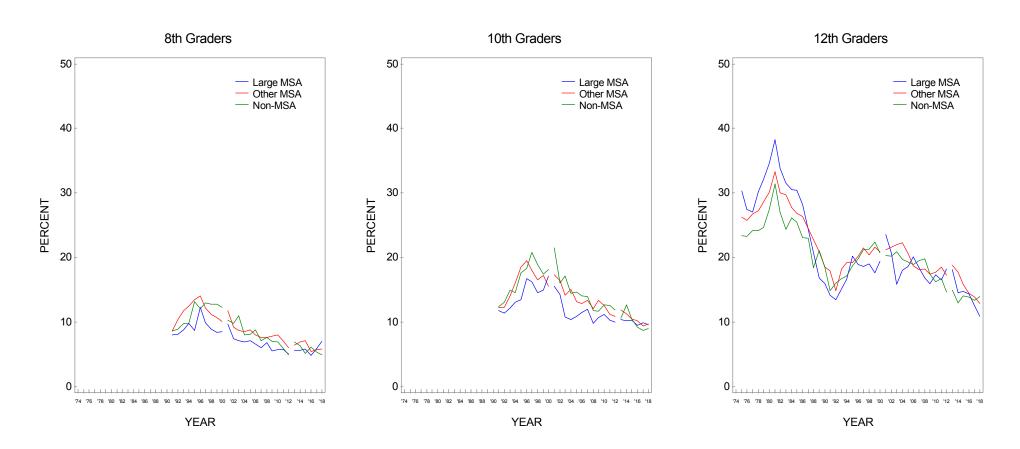
<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 9
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Region



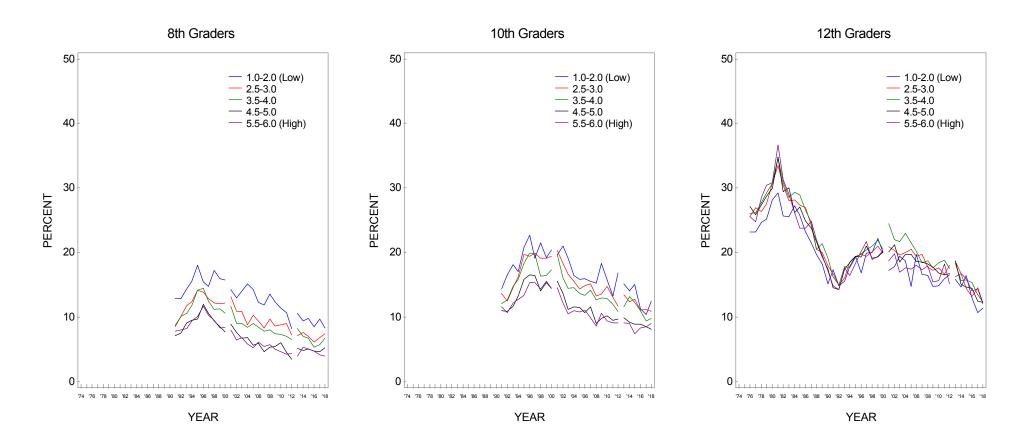
<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 10
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

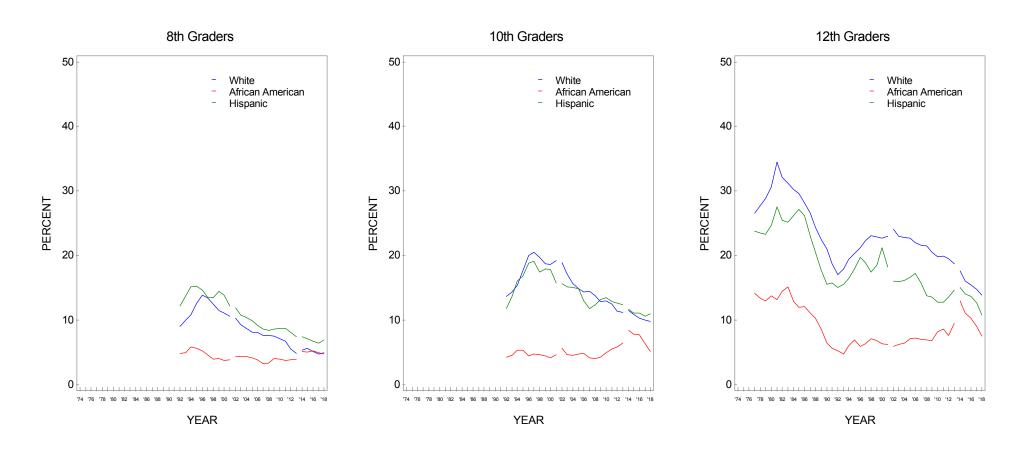
FIGURE 11
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 12
Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 13
Marijuana: Trends in Lifetime Prevalence by Gender

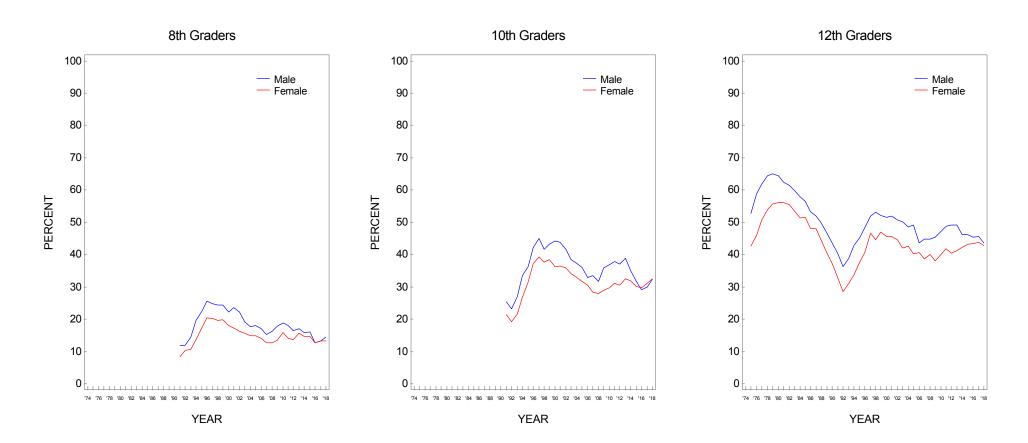


FIGURE 14
Marijuana: Trends in Lifetime Prevalence by College Plans

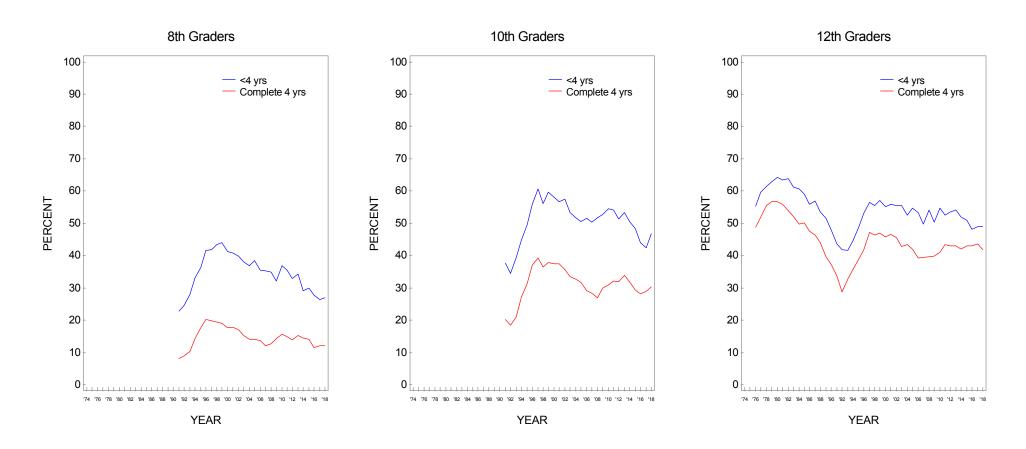


FIGURE 15
Marijuana: Trends in Lifetime Prevalence by Region

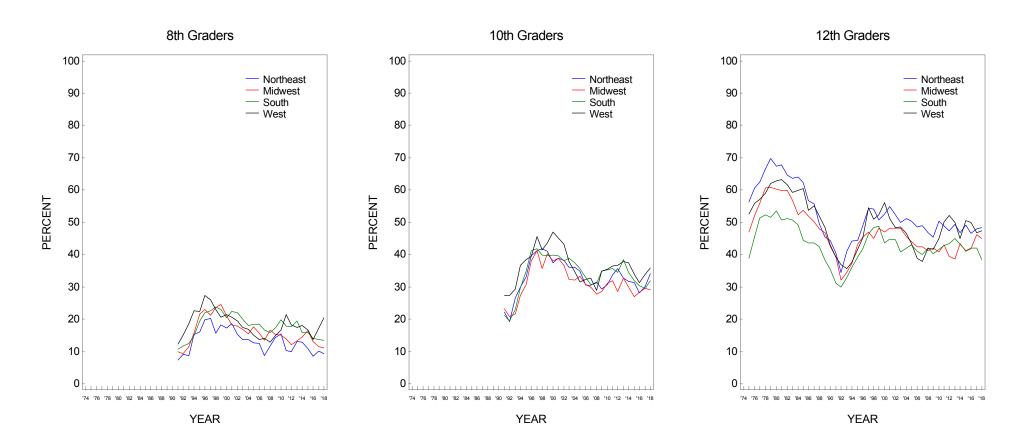


FIGURE 16
Marijuana: Trends in Lifetime Prevalence by Population Density

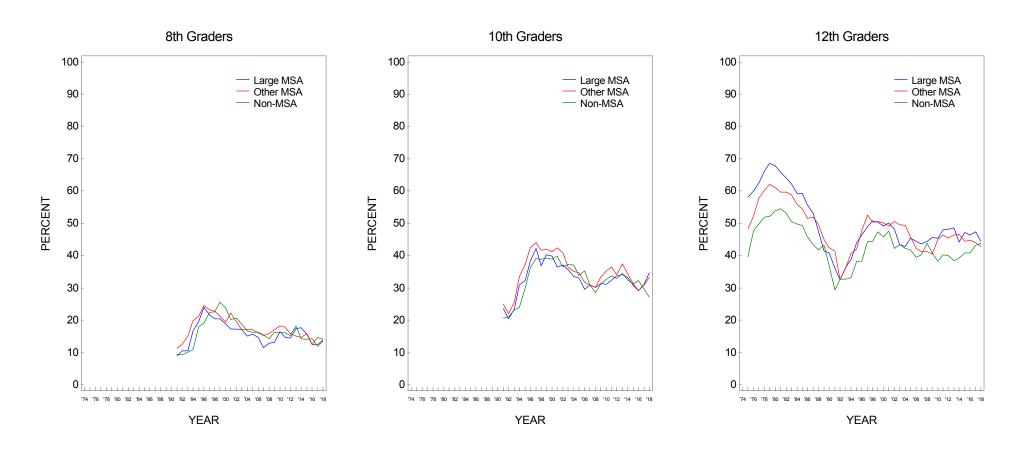
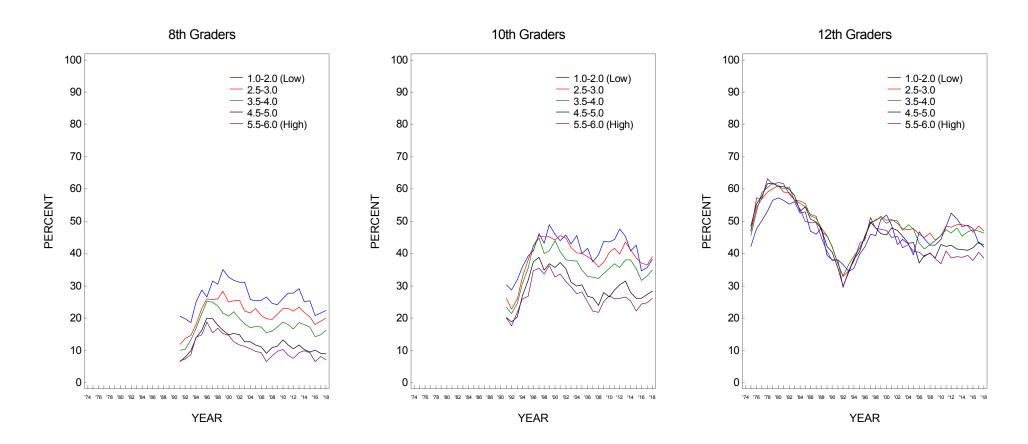
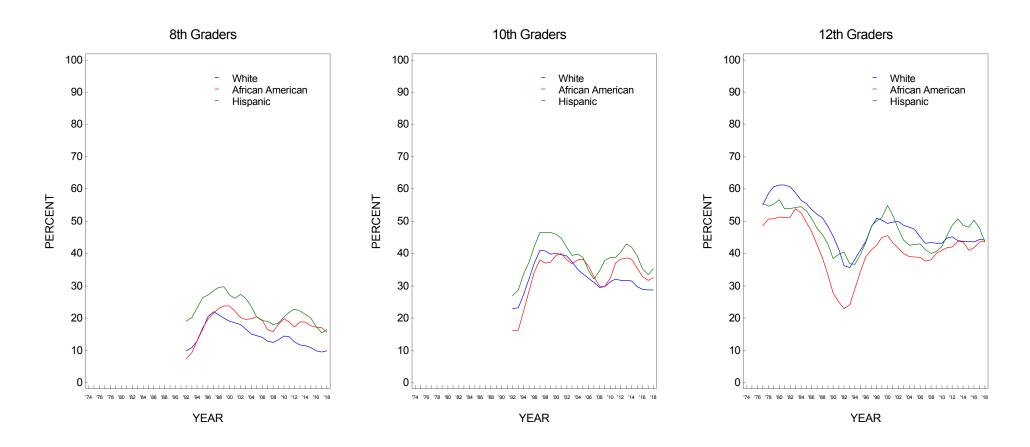


FIGURE 17
Marijuana: Trends in Lifetime Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 18
Marijuana: Trends in Lifetime Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 19
Marijuana: Trends in Annual Prevalence by Gender

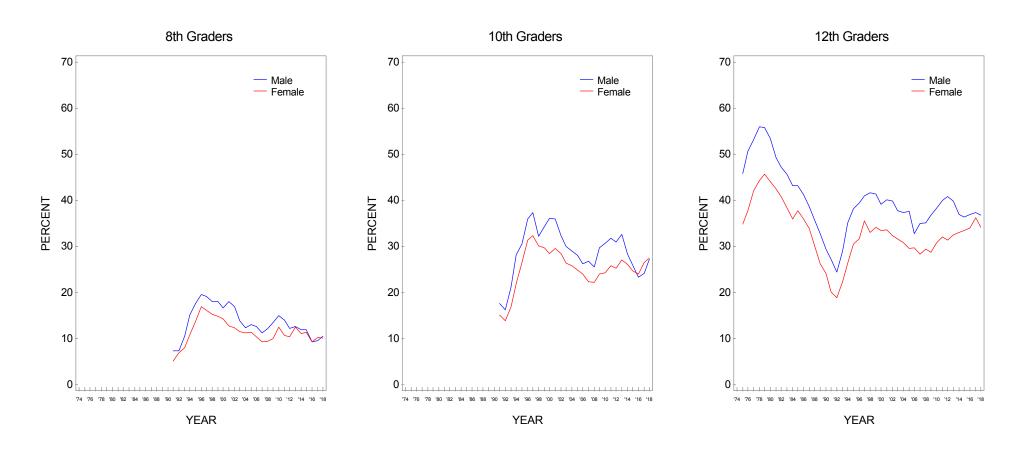


FIGURE 20 Marijuana: Trends in Annual Prevalence by College Plans

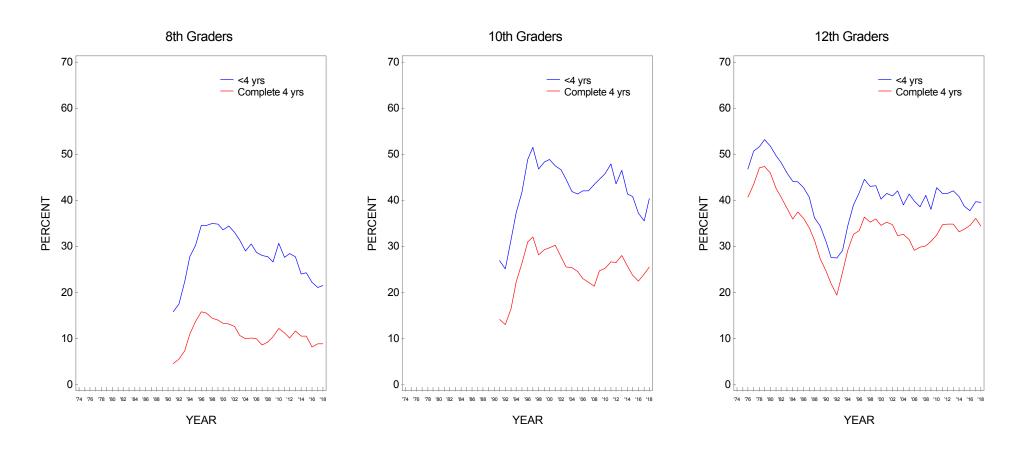


FIGURE 21 Marijuana: Trends in Annual Prevalence by Region

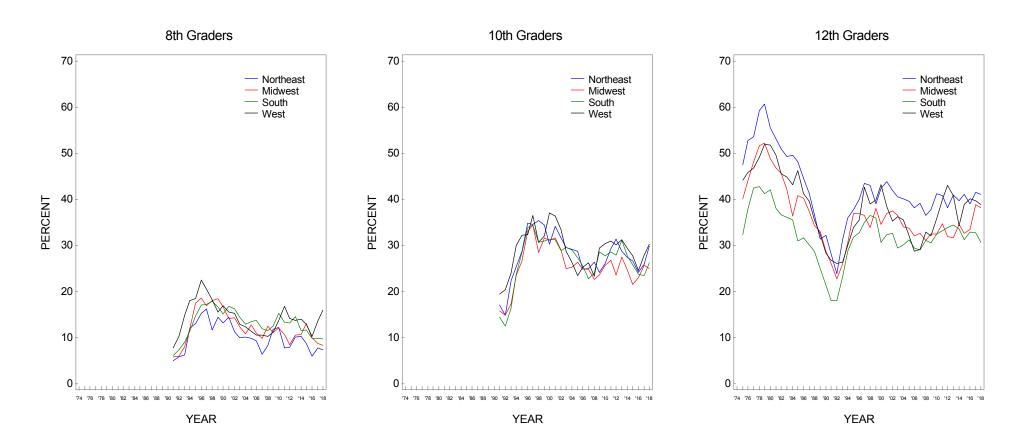


FIGURE 22
Marijuana: Trends in Annual Prevalence by Population Density

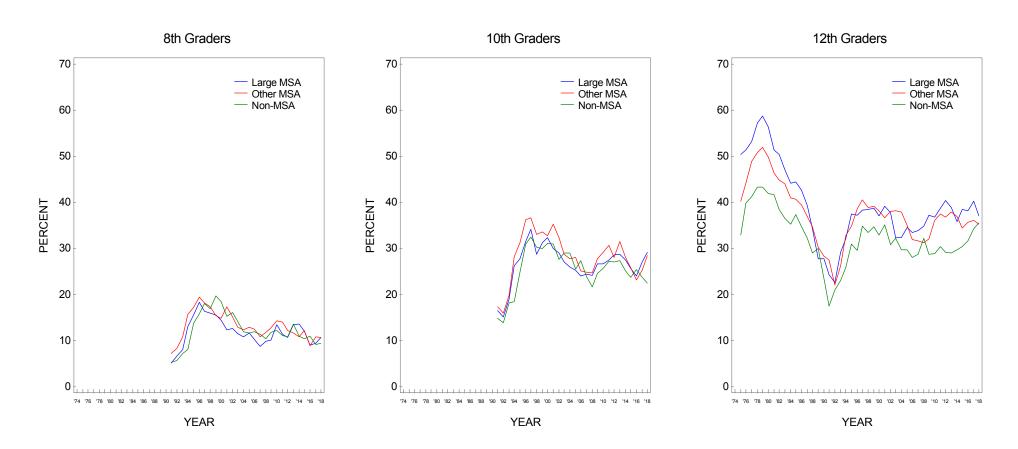
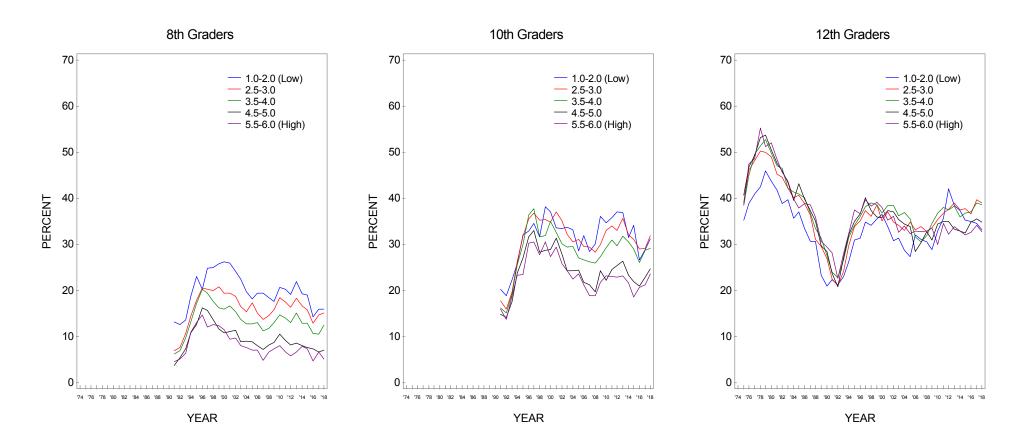
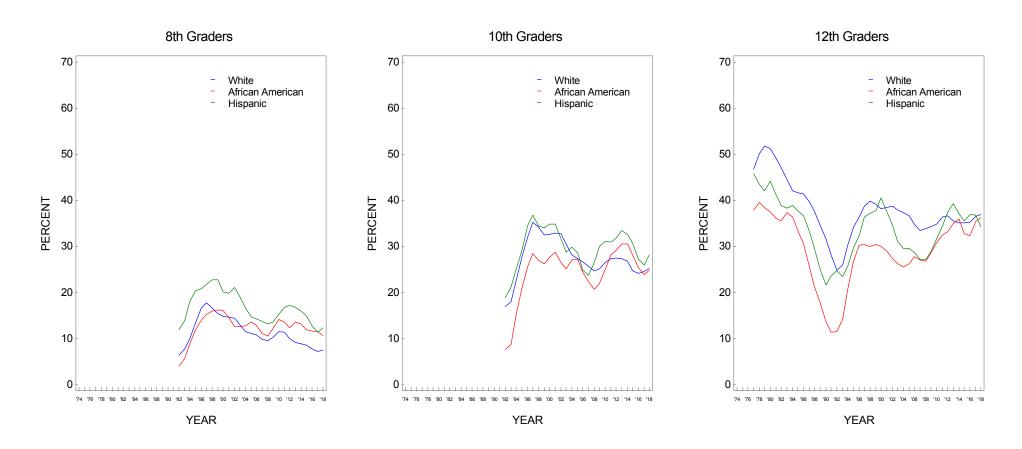


FIGURE 23
Marijuana: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 24
Marijuana: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 25
Marijuana: Trends in 30-Day Prevalence by Gender

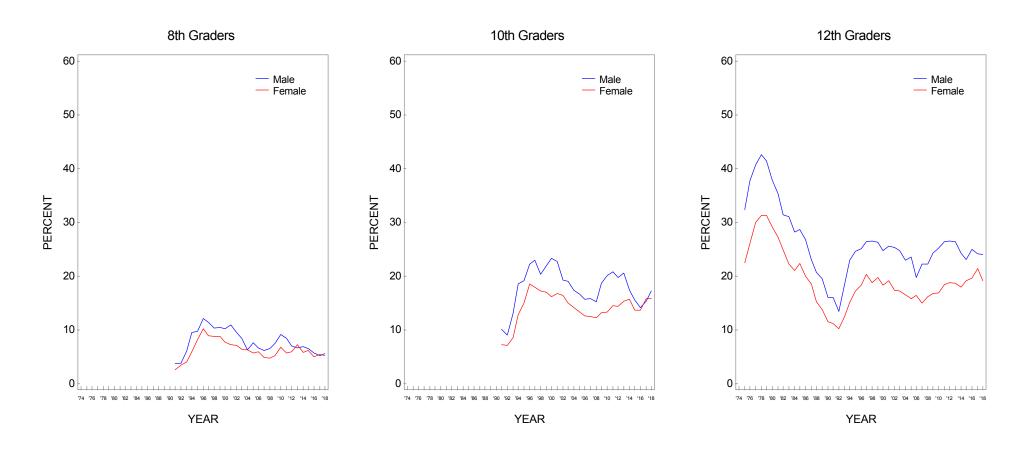


FIGURE 26
Marijuana: Trends in 30-Day Prevalence by College Plans

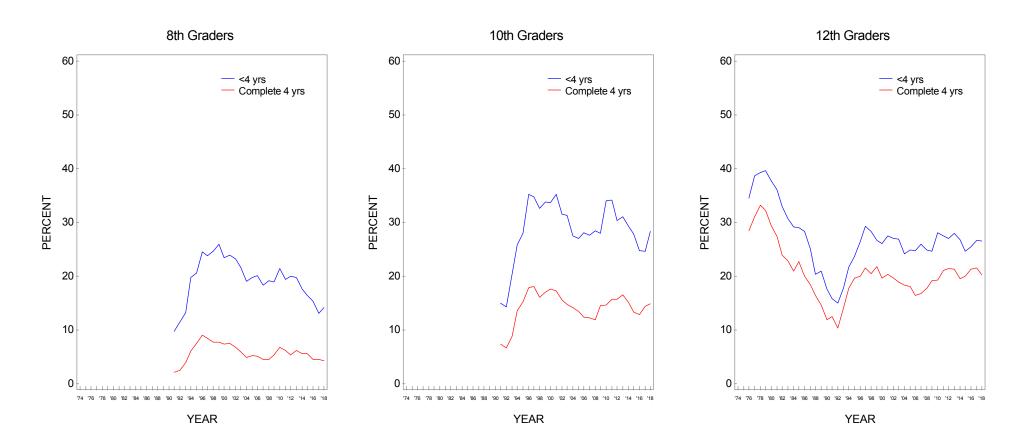


FIGURE 27
Marijuana: Trends in 30-Day Prevalence by Region

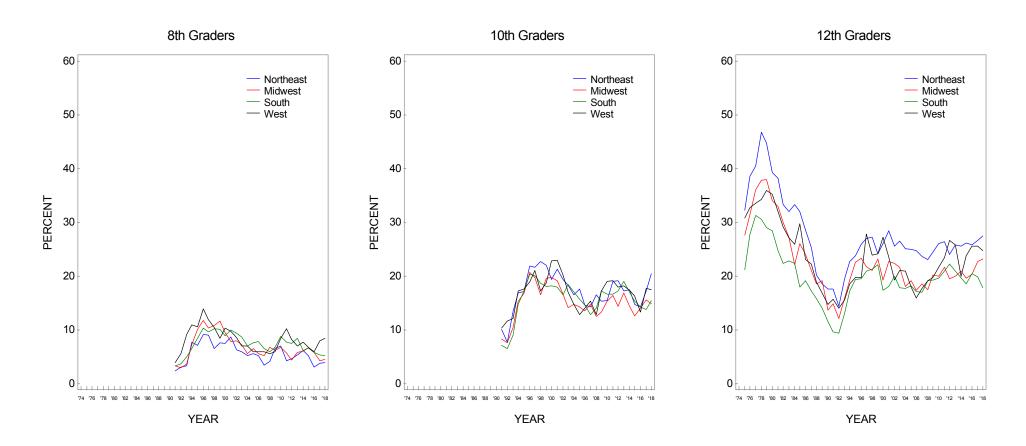


FIGURE 28
Marijuana: Trends in 30-Day Prevalence by Population Density

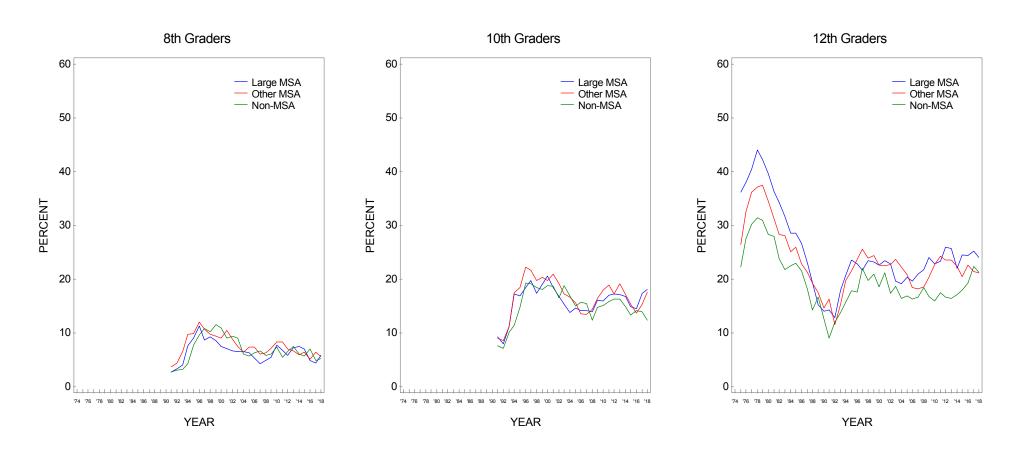
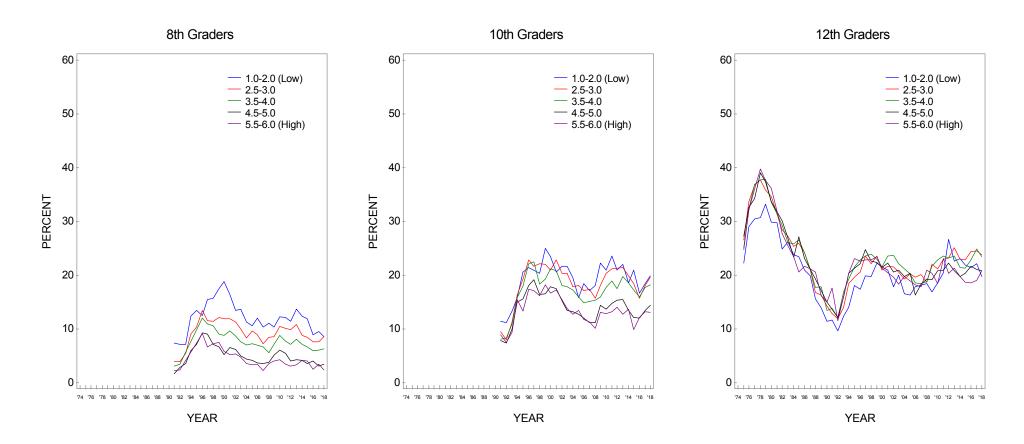
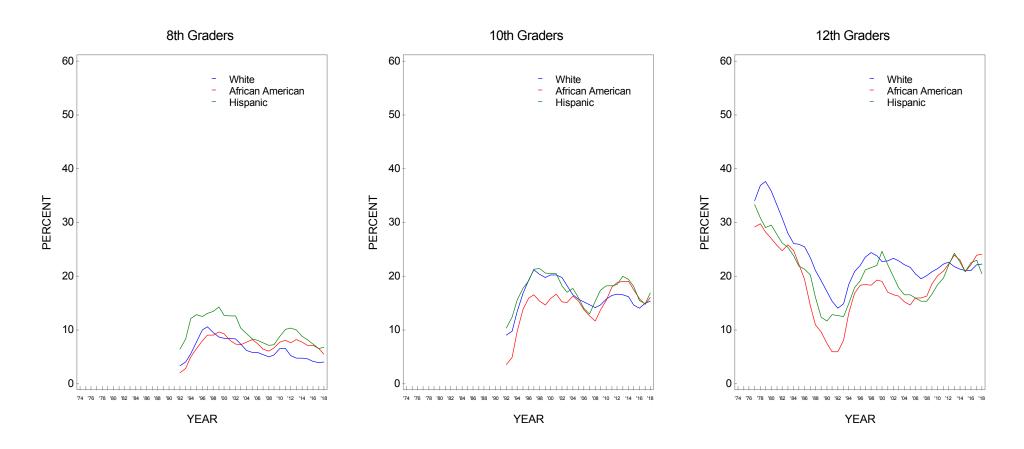


FIGURE 29
Marijuana: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 30
Marijuana: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 31
Marijuana: Trends in 30-Day Prevalence of Daily Use by Gender

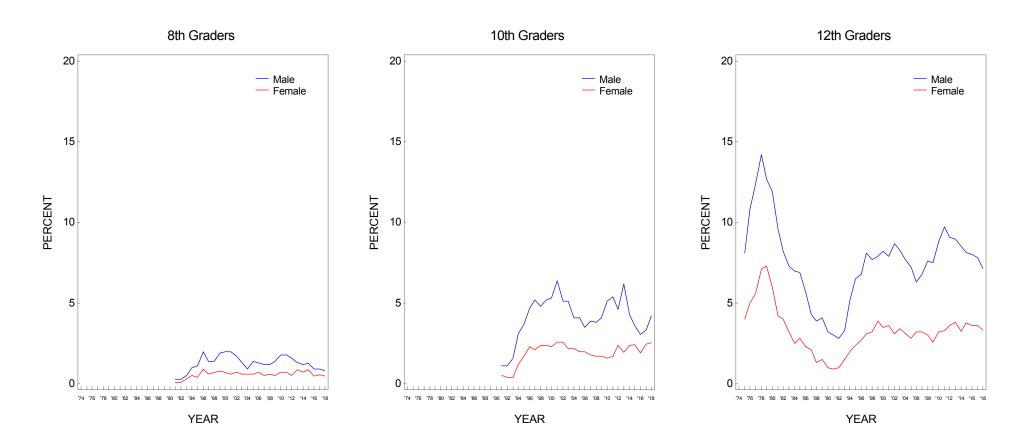


FIGURE 32 Marijuana: Trends in 30-Day Prevalence of Daily Use by College Plans

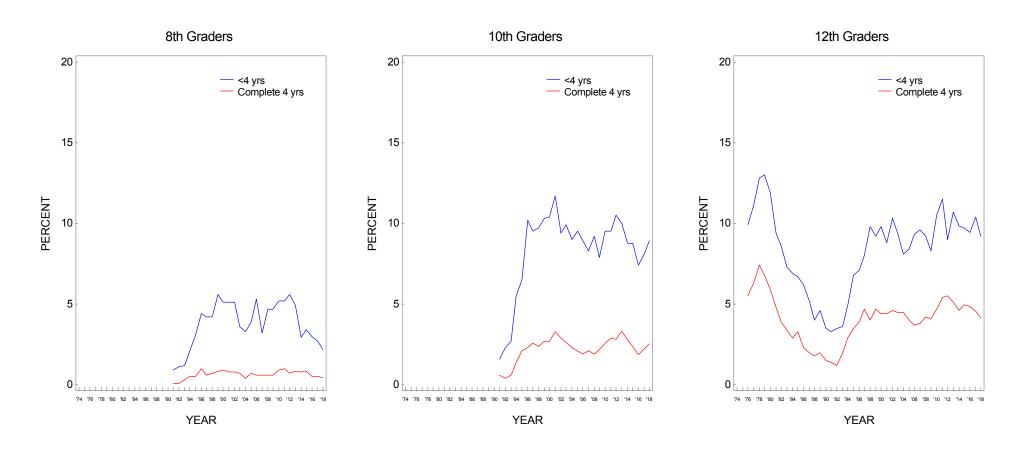


FIGURE 33
Marijuana: Trends in 30-Day Prevalence of Daily Use by Region

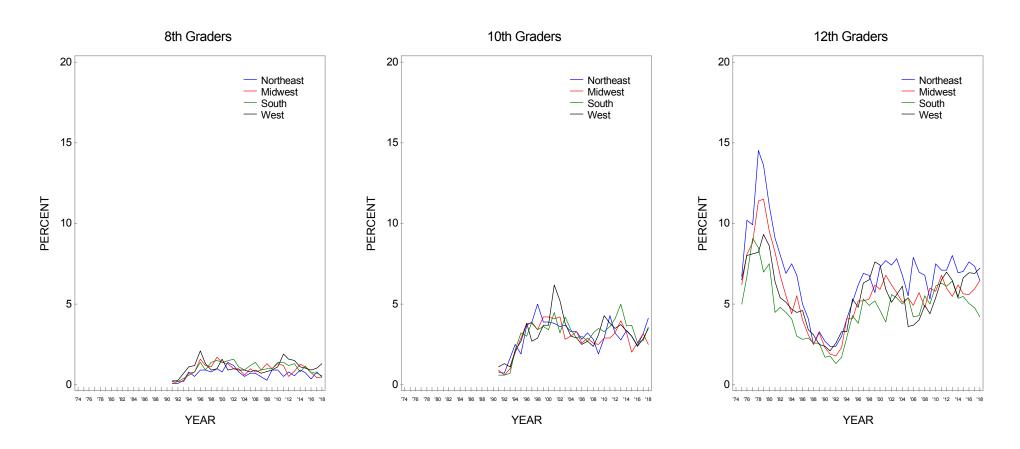


FIGURE 34
Marijuana: Trends in 30-Day Prevalence of Daily Use by Population Density

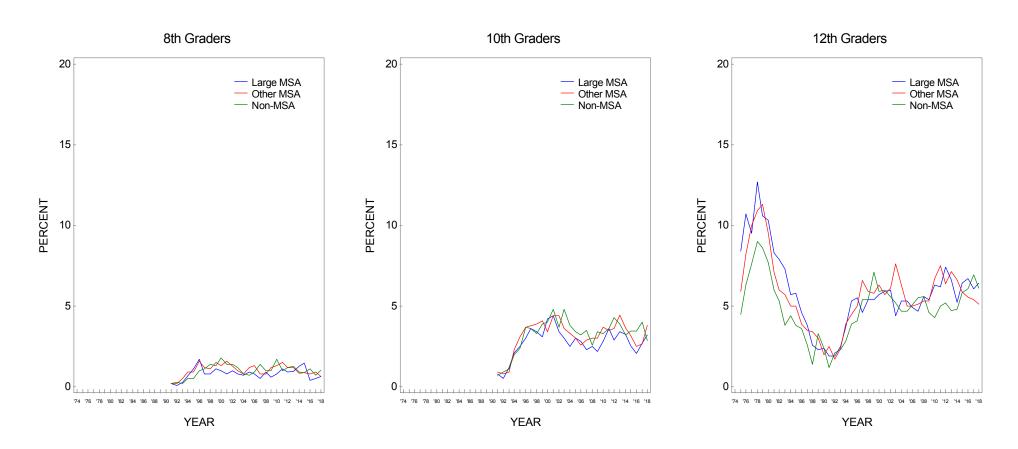
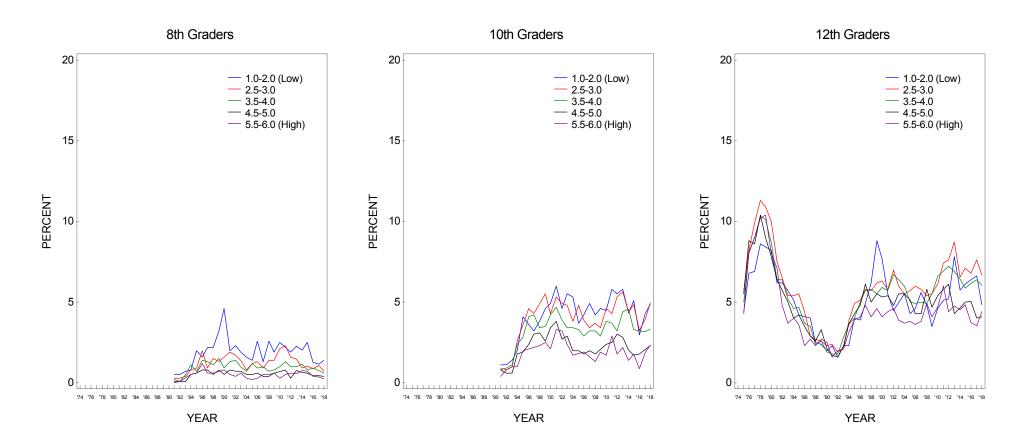
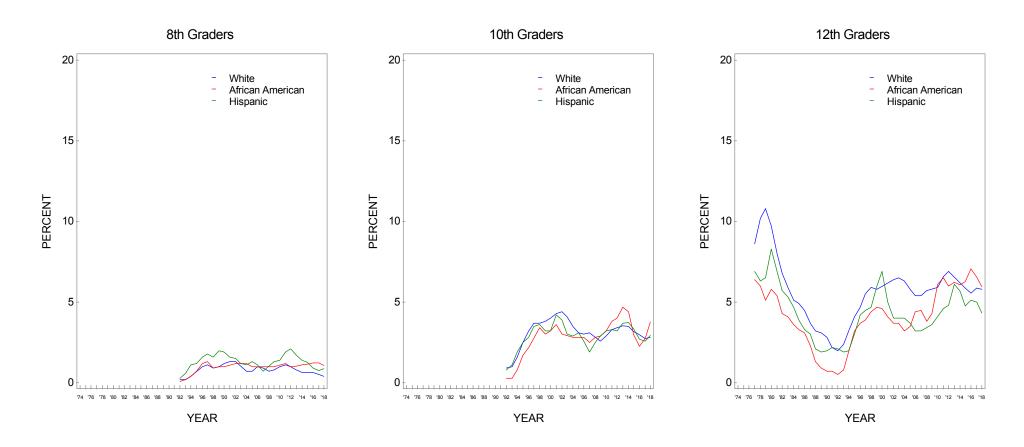


FIGURE 35
Marijuana: Trends 30-Day Prevalence of Daily Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 36
Marijuana: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 37 Synthetic Marijuana: Trends in Annual Prevalence by Gender

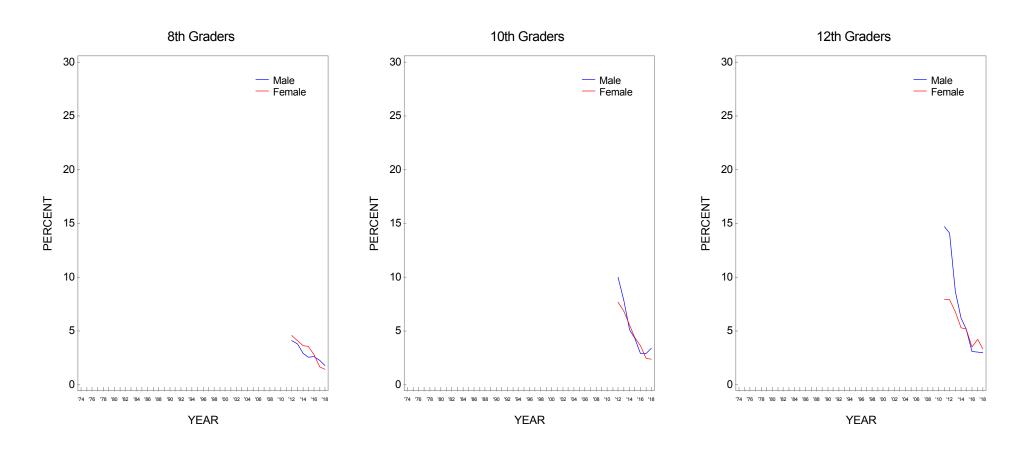


FIGURE 38 Synthetic Marijuana: Trends in Annual Prevalence by College Plans

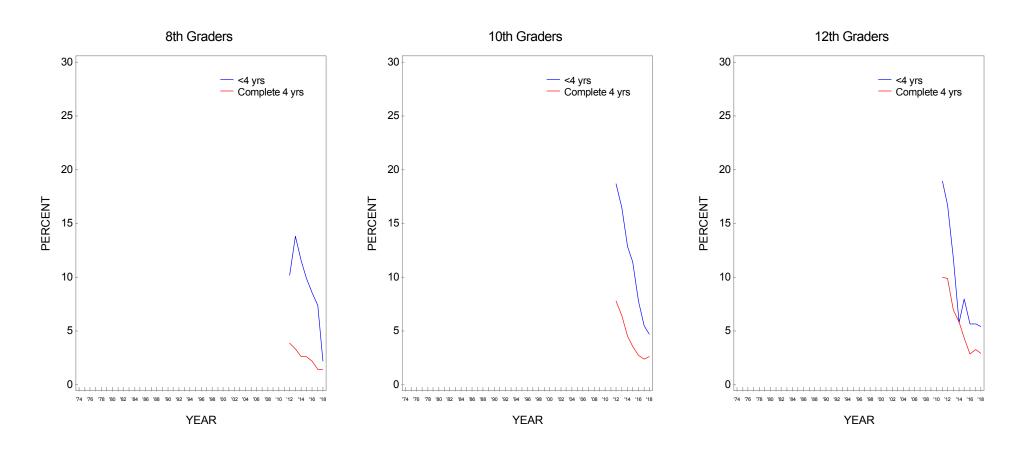


FIGURE 39
Synthetic Marijuana: Trends in Annual Prevalence by Region

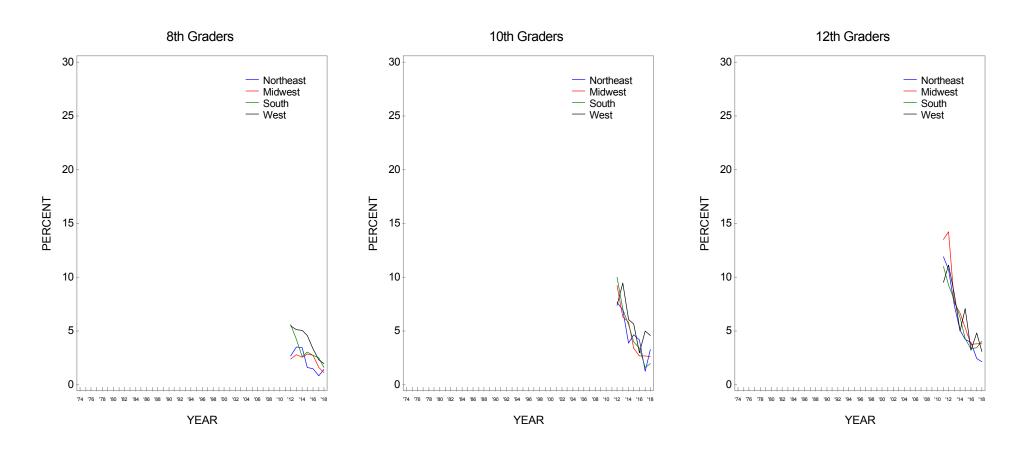


FIGURE 40 Synthetic Marijuana: Trends in Annual Prevalence by Population Density

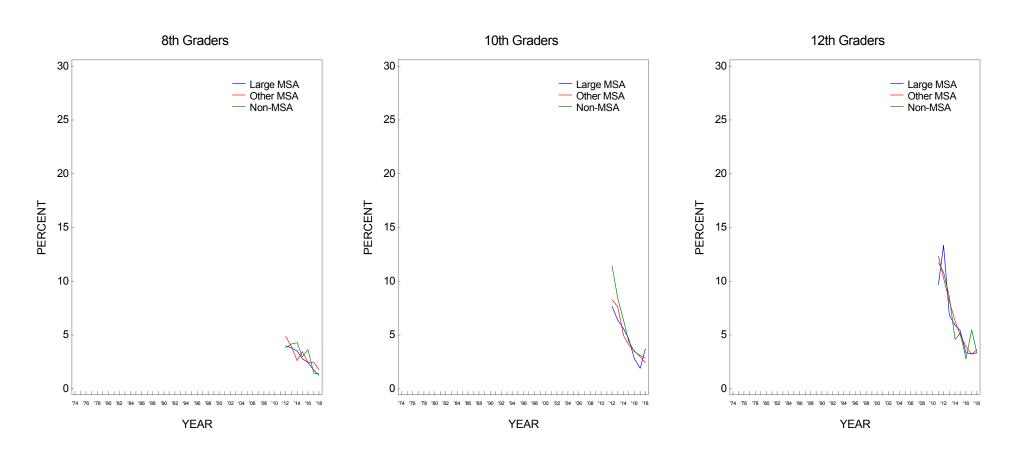
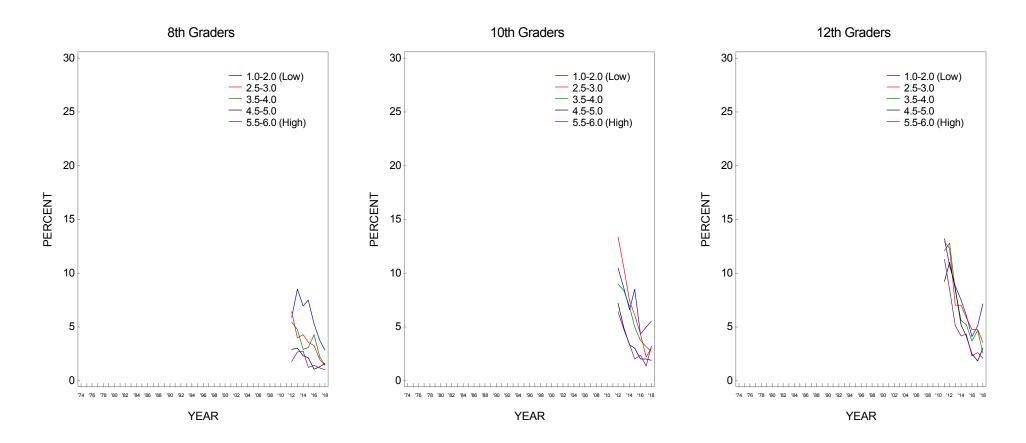
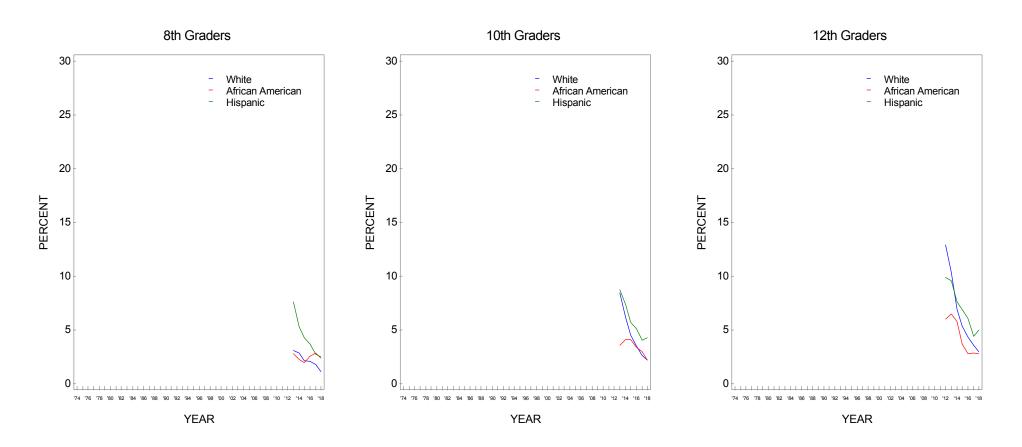


FIGURE 41
Synthetic Marijuana: Trends Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 42
Synthetic Marijuana: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 43
Inhalants: Trends in Annual Prevalence by Gender

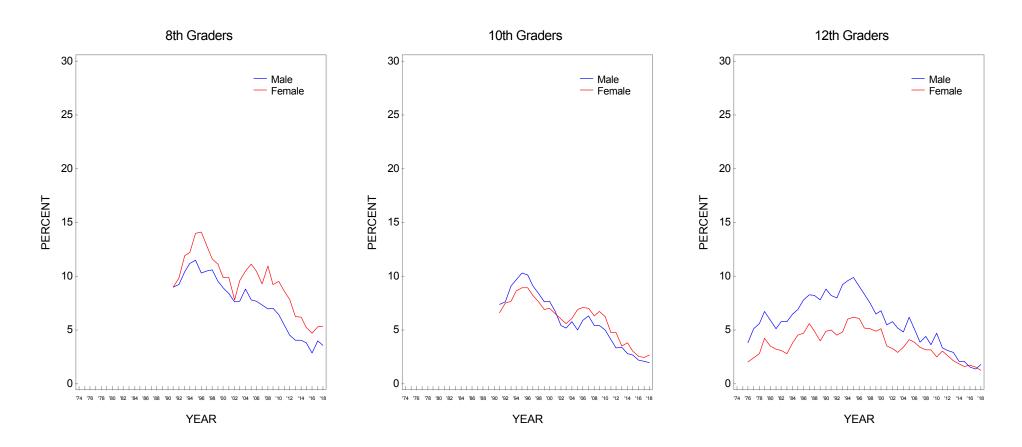


FIGURE 44
Inhalants: Trends in Annual Prevalence by College Plans

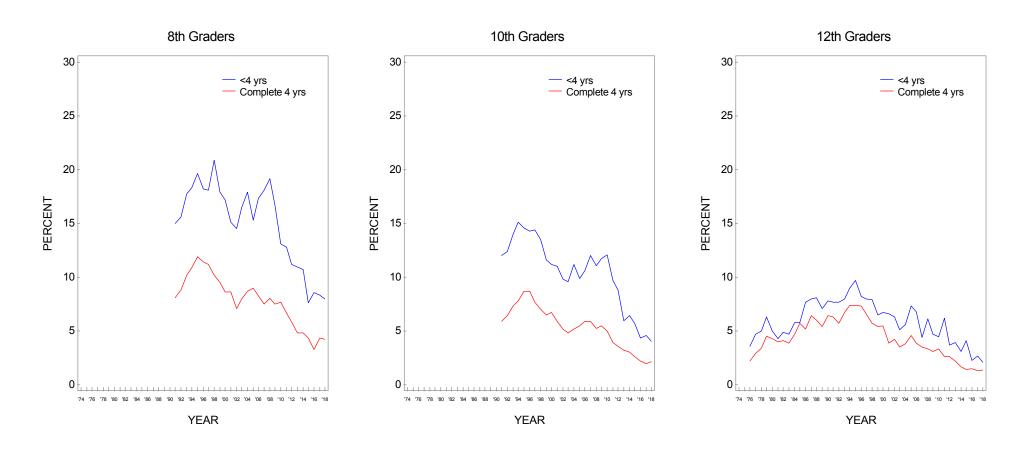


FIGURE 45
Inhalants: Trends in Annual Prevalence by Region

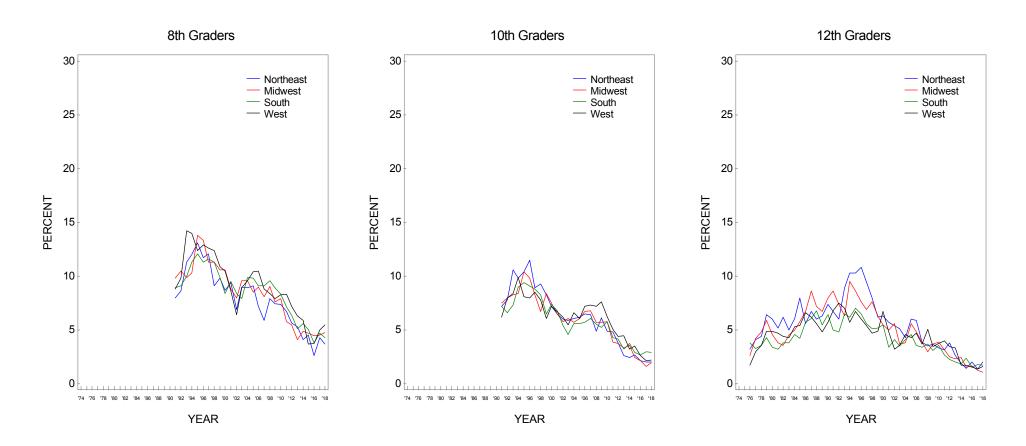


FIGURE 46
Inhalants: Trends in Annual Prevalence by Population Density

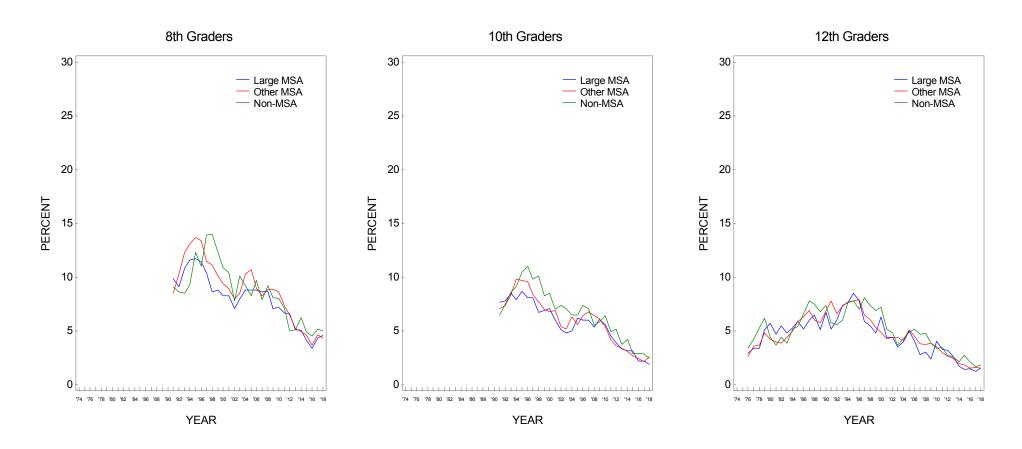
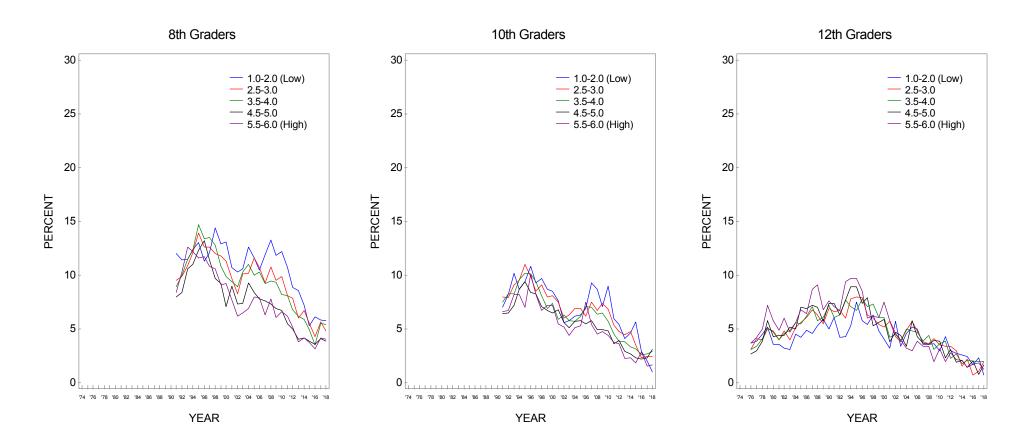
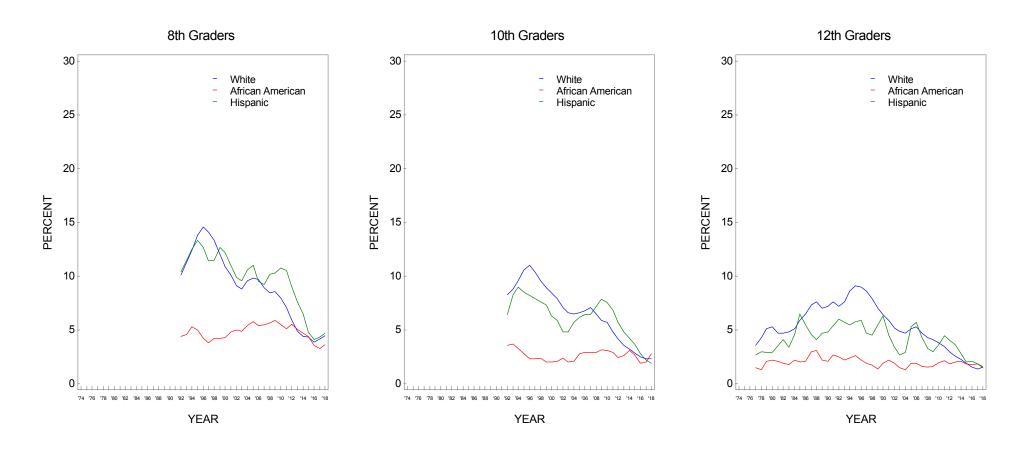


FIGURE 47
Inhalants: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 48
Inhalants: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 49
Hallucinogens:\* Trends in Annual Prevalence by Gender

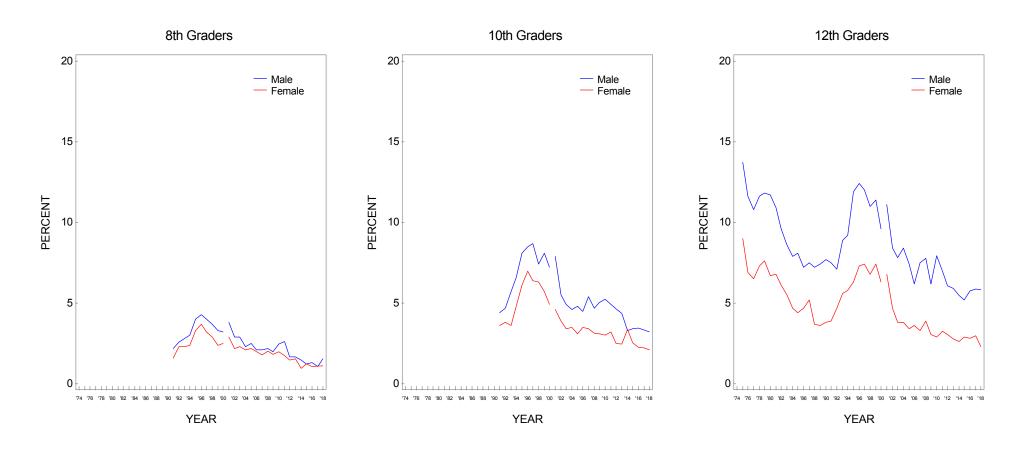


FIGURE 50
Hallucinogens:\* Trends in Annual Prevalence by College Plans

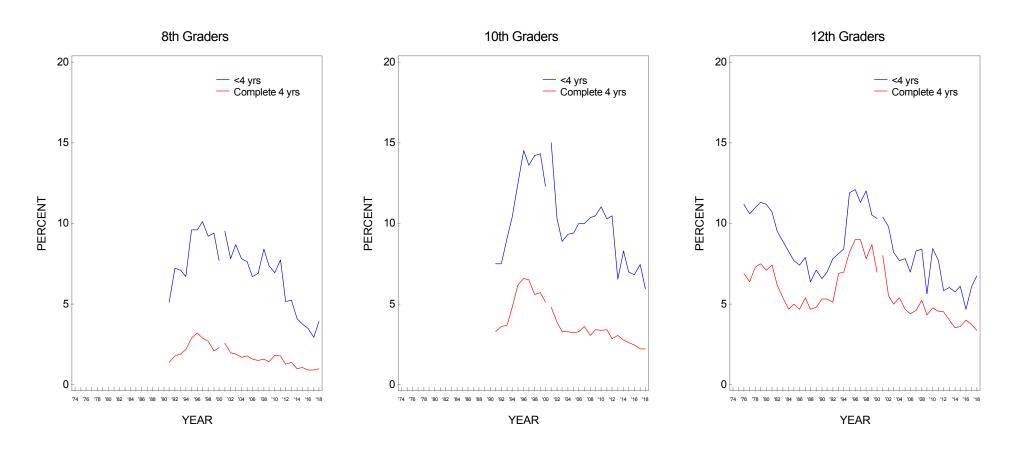


FIGURE 51
Hallucinogens:\* Trends in Annual Prevalence by Region

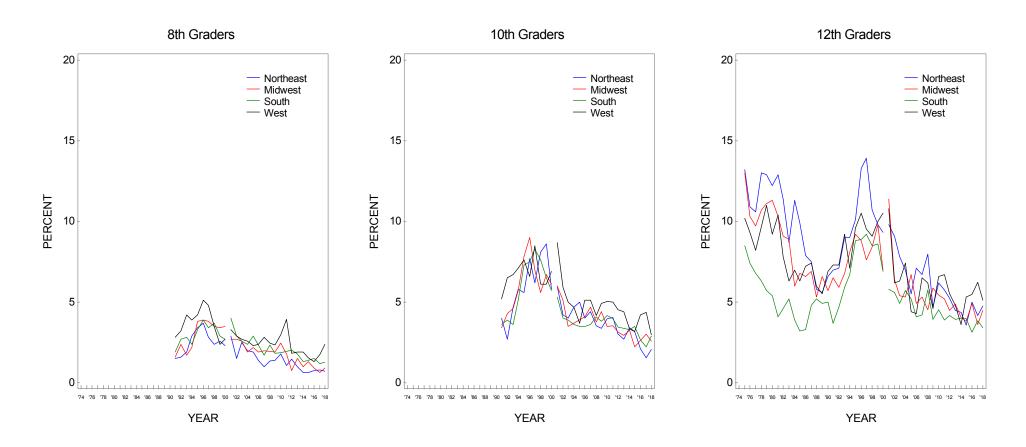


FIGURE 52
Hallucinogens:\* Trends in Annual Prevalence by Population Density

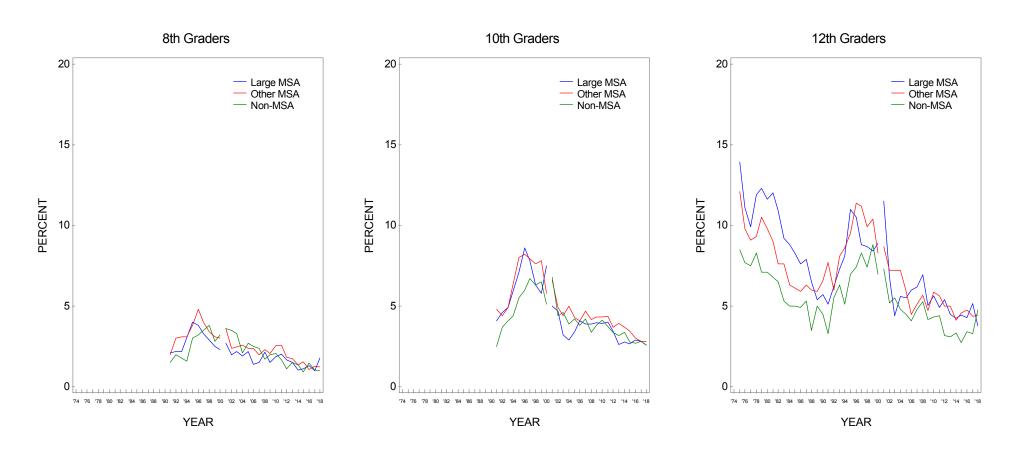
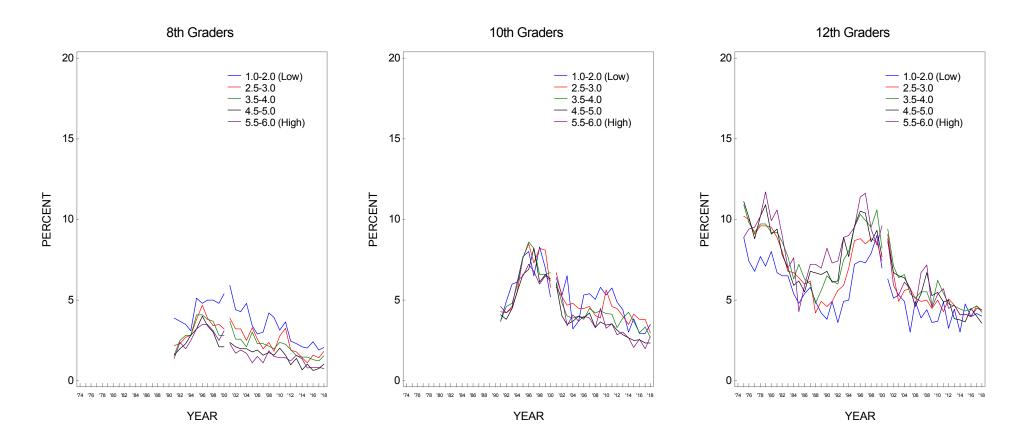


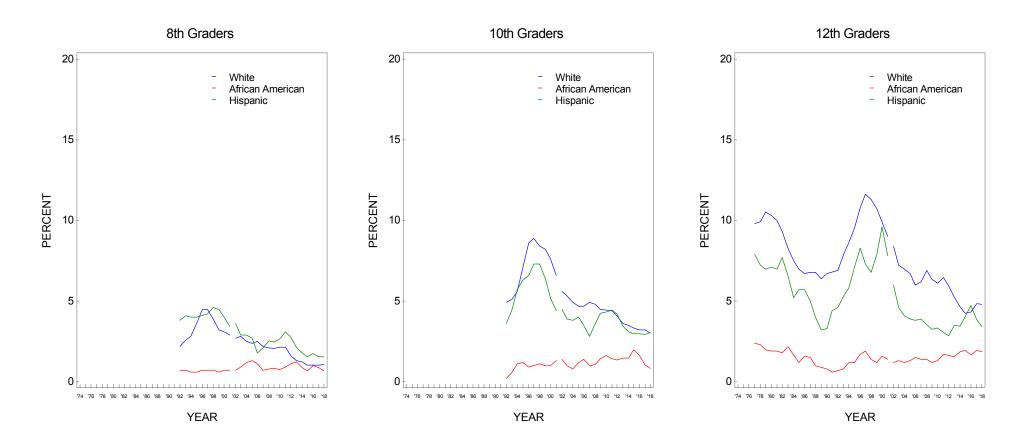
FIGURE 53
Hallucinogens:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. Data for hallucinogens are affected by these changes.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 54
Hallucinogens:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. Data for hallucinogens are affected by these changes.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 55
LSD: Trends in Annual Prevalence by Gender

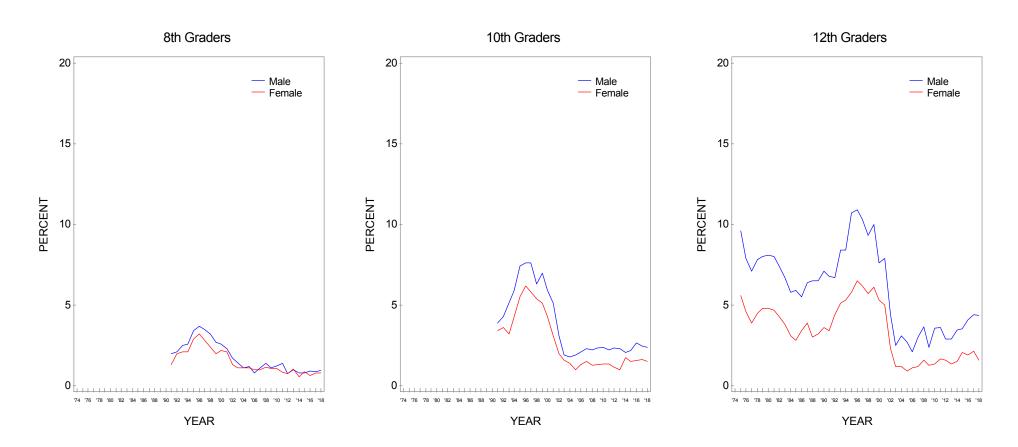


FIGURE 56 LSD: Trends in Annual Prevalence by College Plans

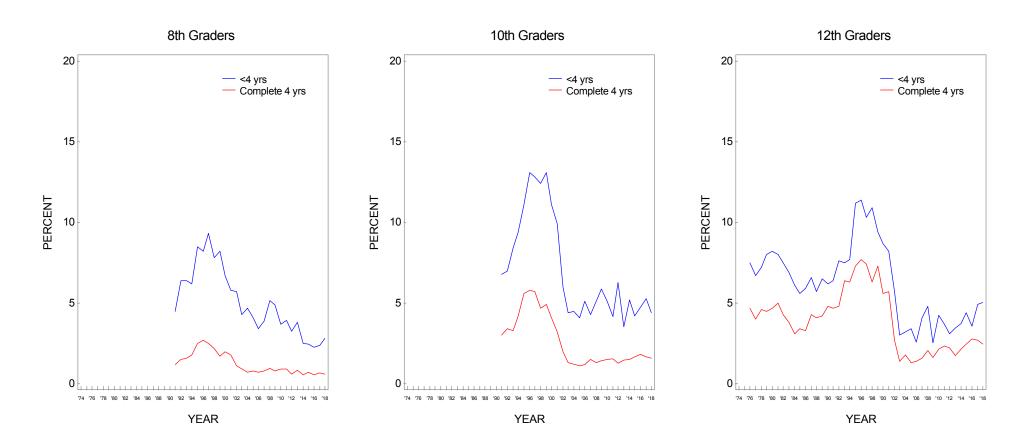


FIGURE 57 LSD: Trends in Annual Prevalence by Region

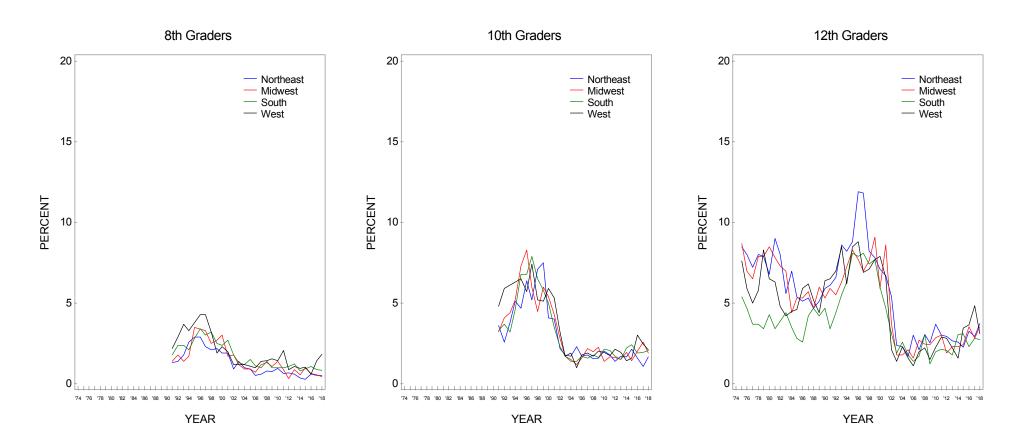


FIGURE 58
LSD: Trends in Annual Prevalence by Population Density

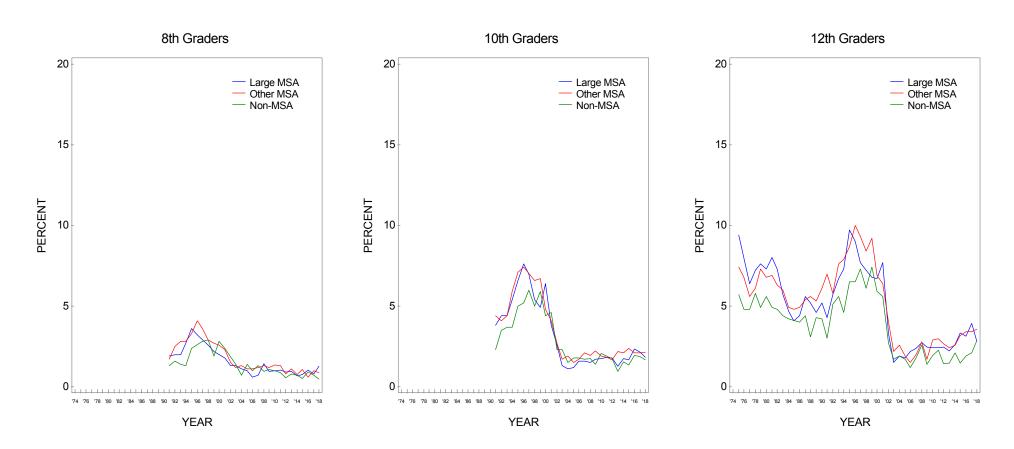
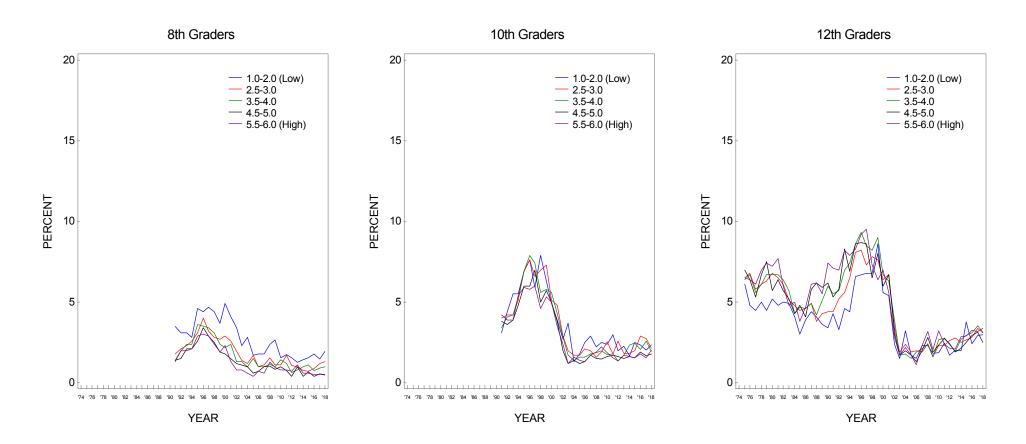
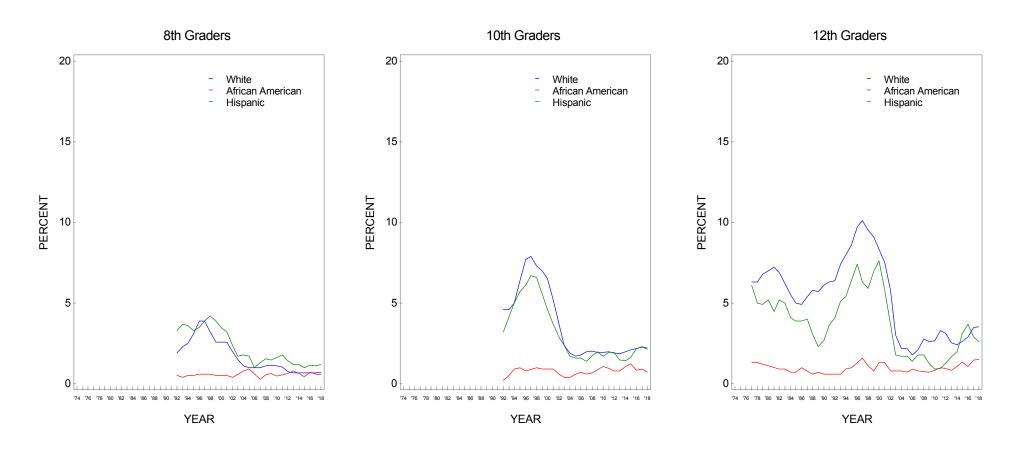


FIGURE 59
LSD: Trends in Annual Prevalence by Average Education Level of Parents\*



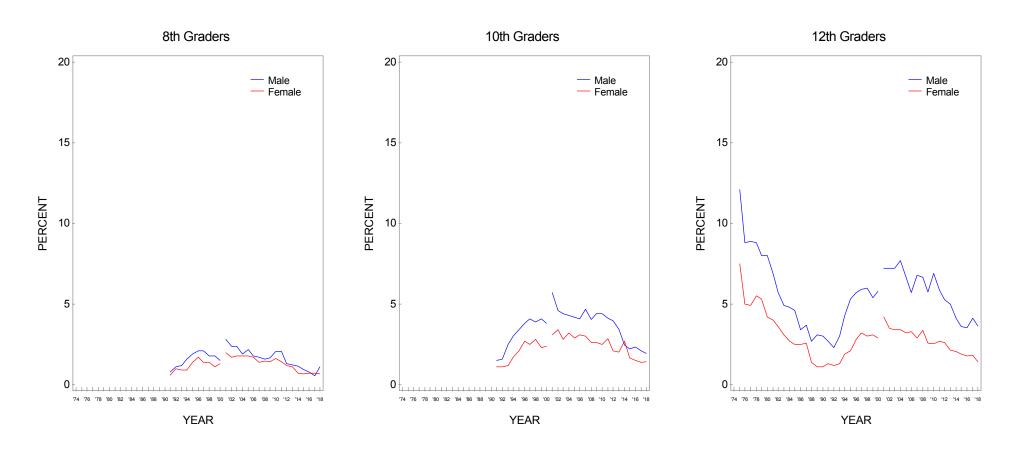
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 60 LSD: Trends in Annual Prevalence by Race/Ethnicity\*



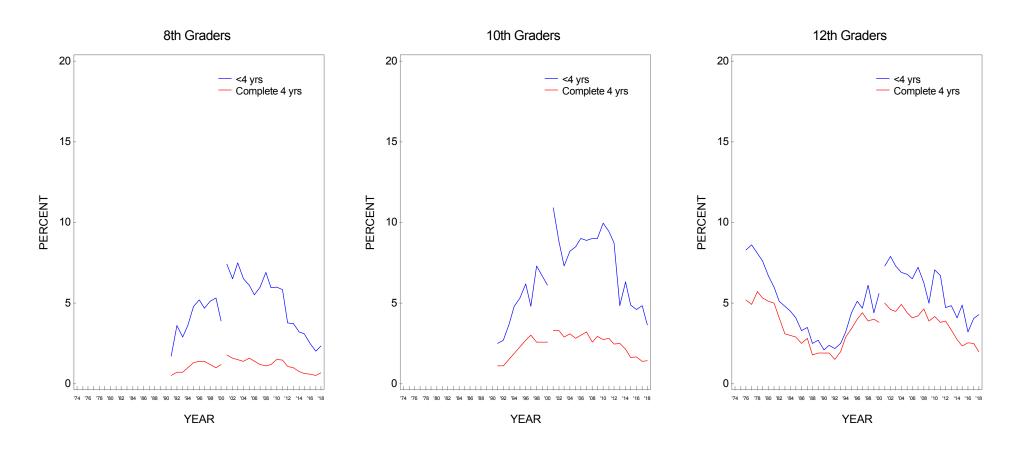
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 61
Hallucinogens other than LSD:\* Trends in Annual Prevalence by Gender



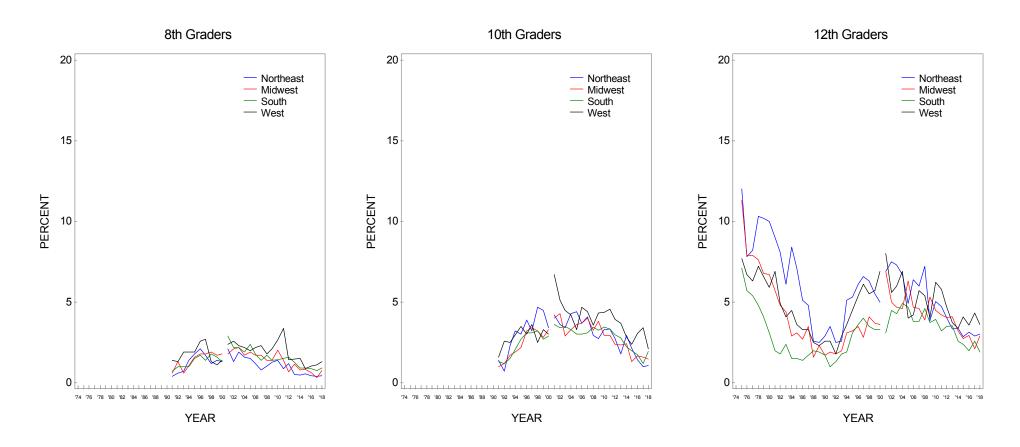
<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

FIGURE 62
Hallucinogens other than LSD:\* Trends in Annual Prevalence by College Plans



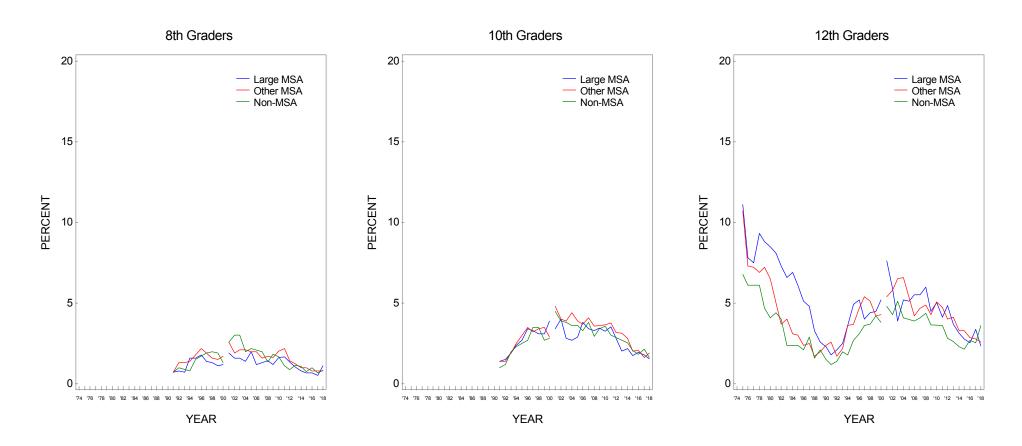
<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

FIGURE 63
Hallucinogens other than LSD:\* Trends in Annual Prevalence by Region



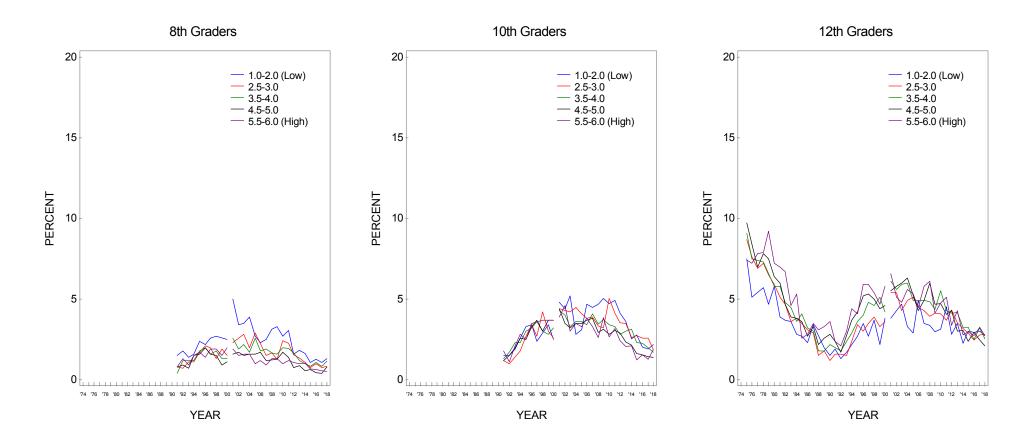
<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

FIGURE 64
Hallucinogens other than LSD:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

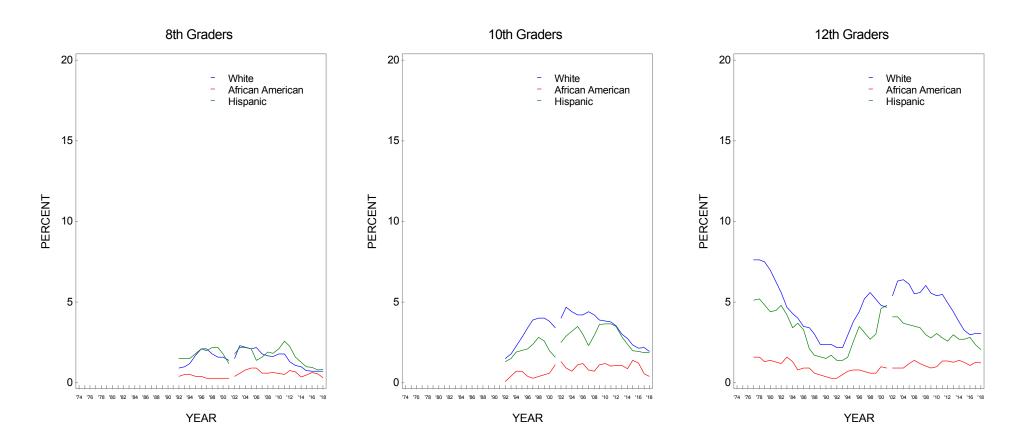
FIGURE 65
Hallucinogens other than LSD:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

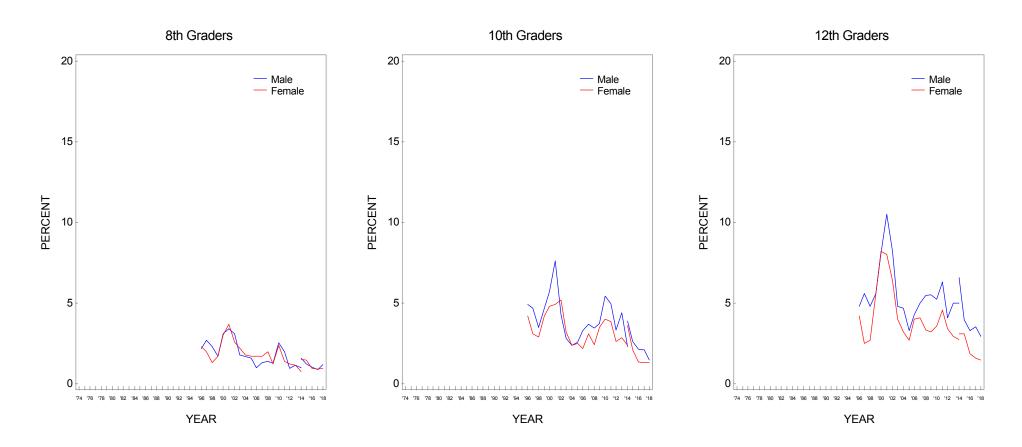
FIGURE 66
Hallucinogens other than LSD:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

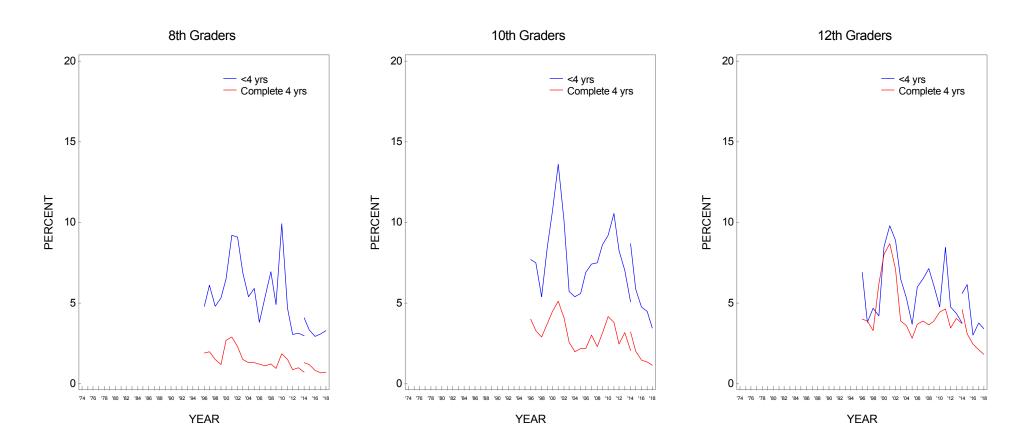
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 67
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by Gender



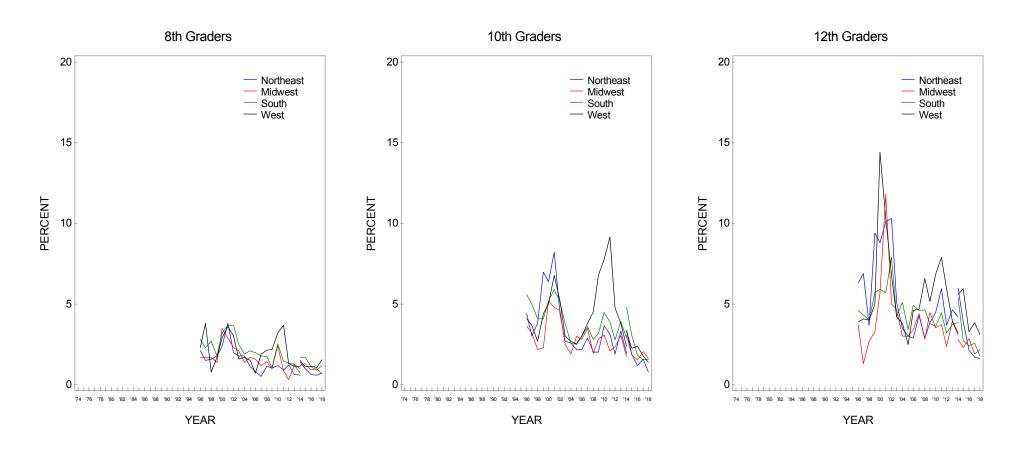
<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

FIGURE 68
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by College Plans



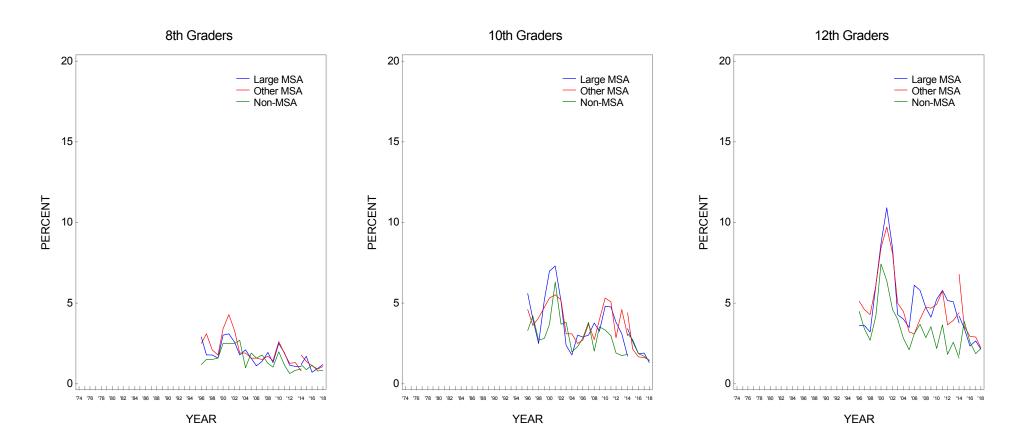
<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

FIGURE 69
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by Region



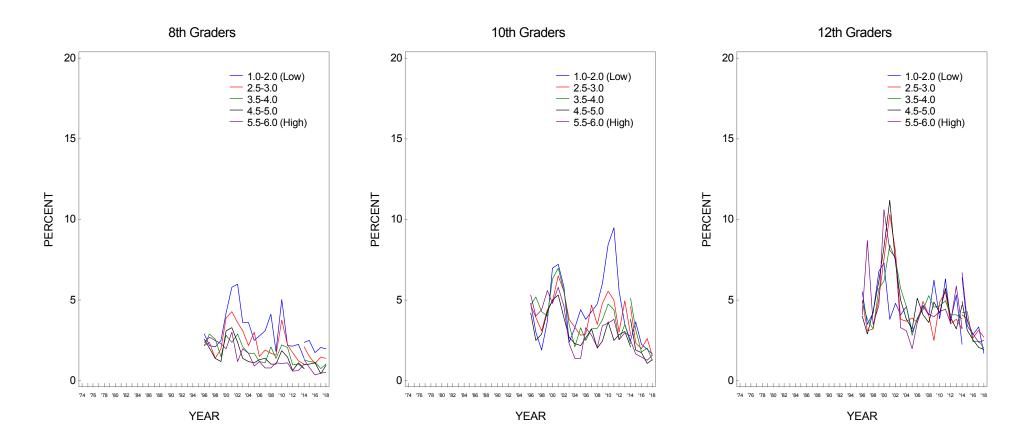
<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

FIGURE 70
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by Population Density



<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

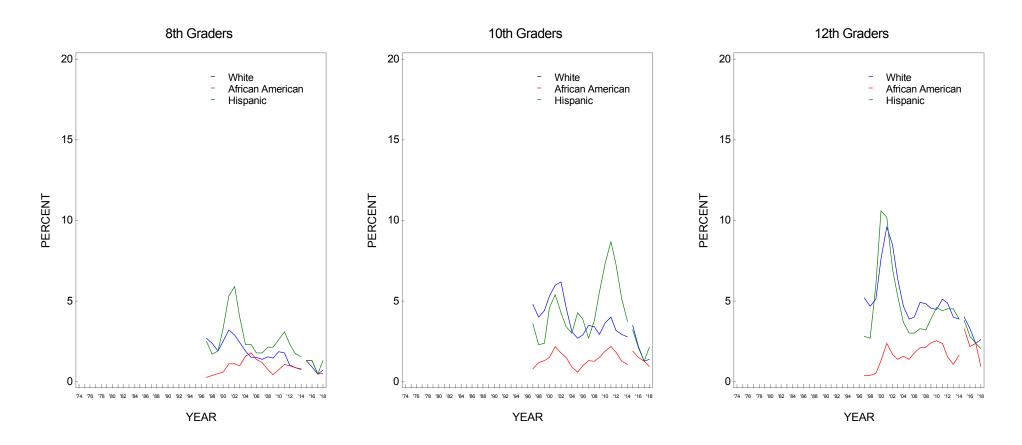
FIGURE 71
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 72
MDMA (Ecstasy, Molly)\*: Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 73 Salvia: Trends in Annual Prevalence by Gender

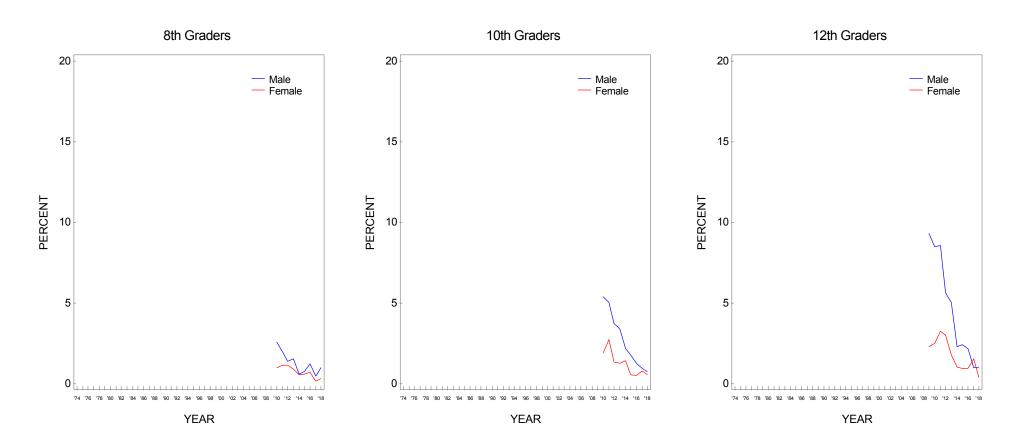


FIGURE 74
Salvia: Trends in Annual Prevalence by College Plans

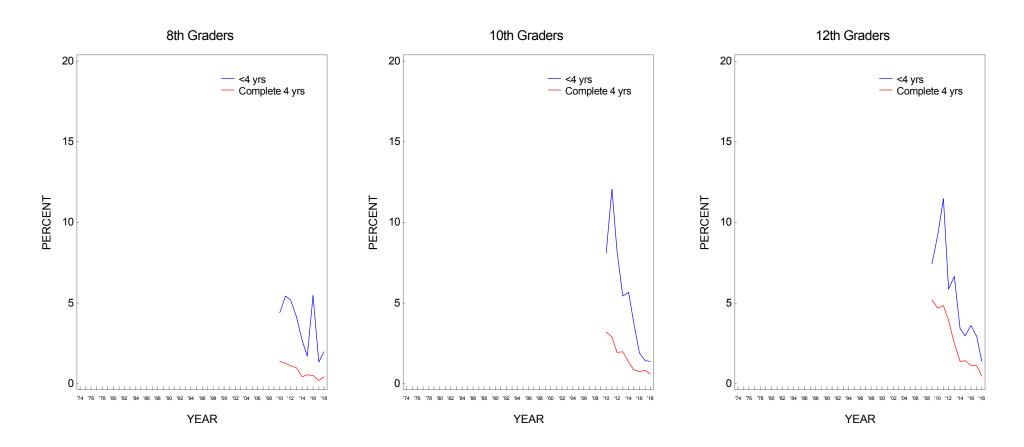


FIGURE 75
Salvia: Trends in Annual Prevalence by Region

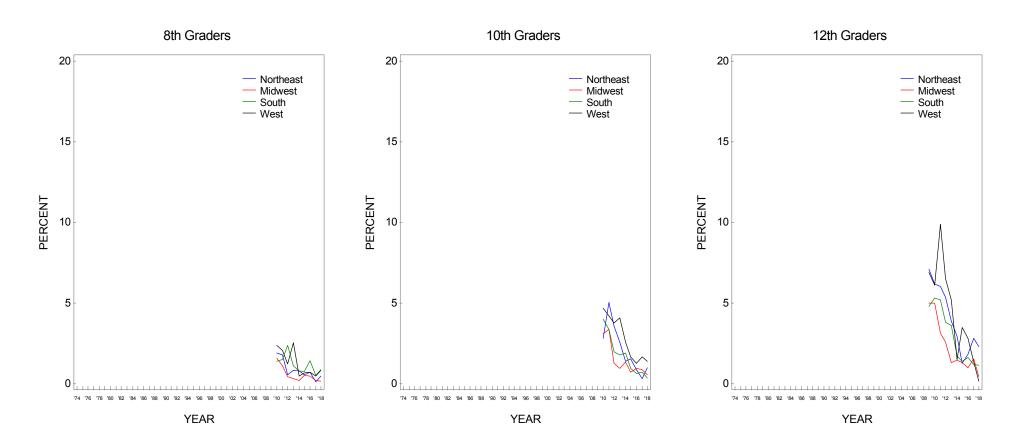


FIGURE 76
Salvia: Trends in Annual Prevalence by Population Density

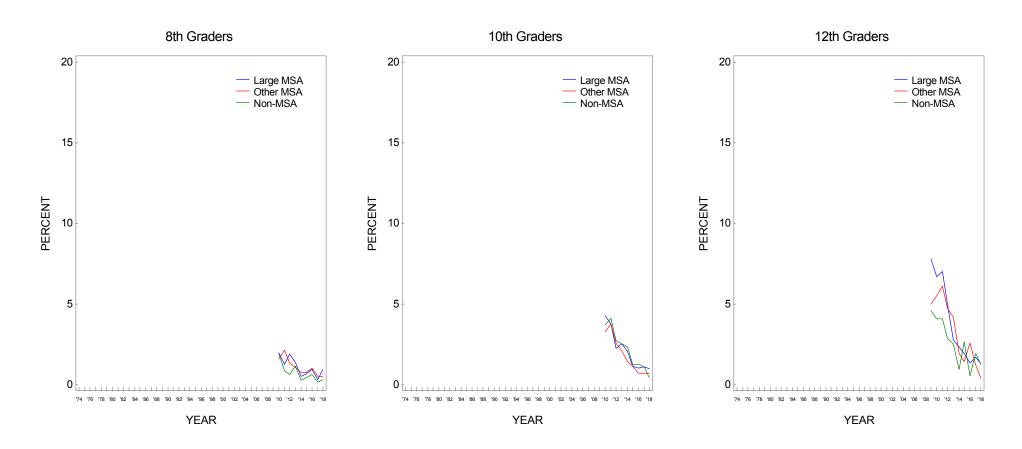
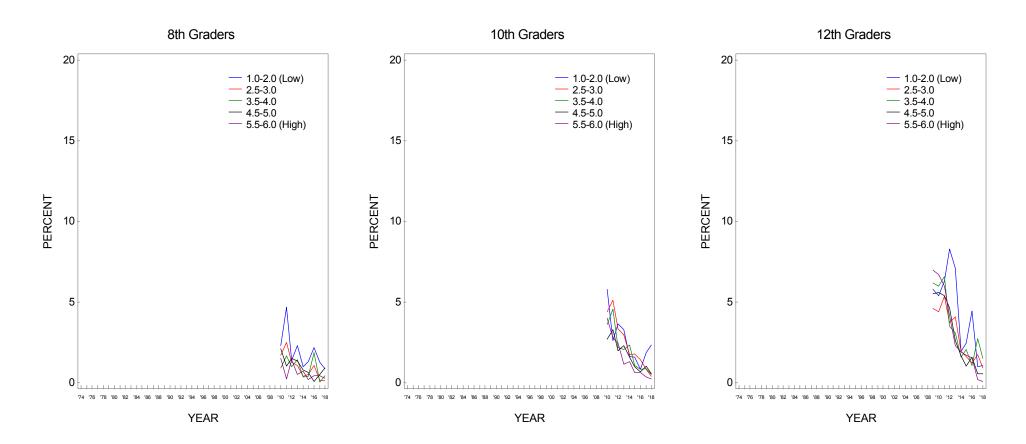
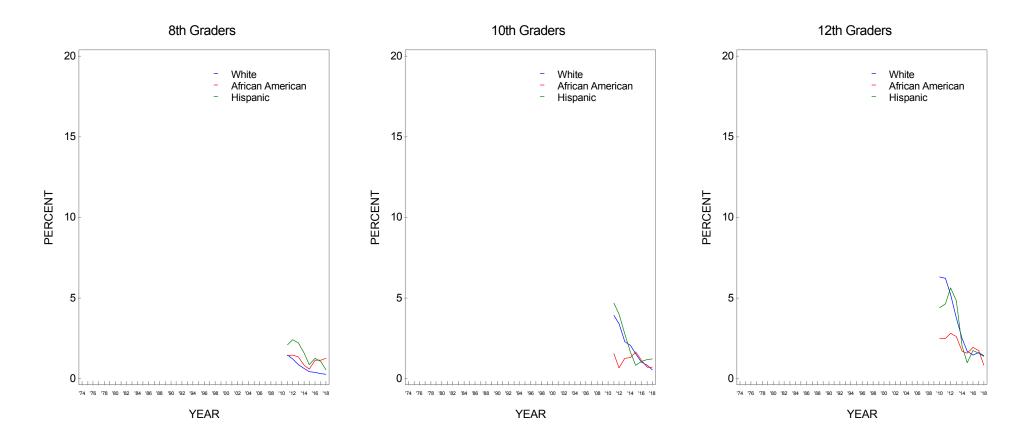


FIGURE 77
Salvia: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 78
Salvia: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 79
Cocaine\*: Trends in Annual Prevalence by Gender

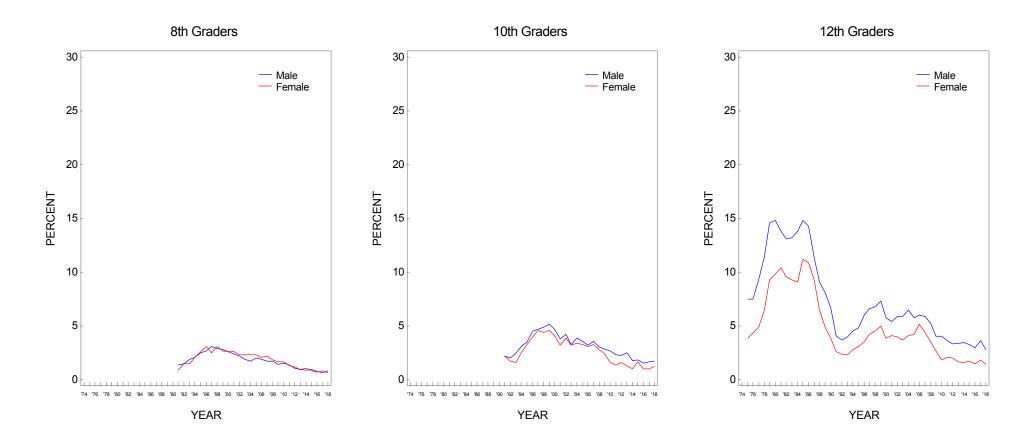


FIGURE 80 Cocaine\*: Trends in Annual Prevalence by College Plans

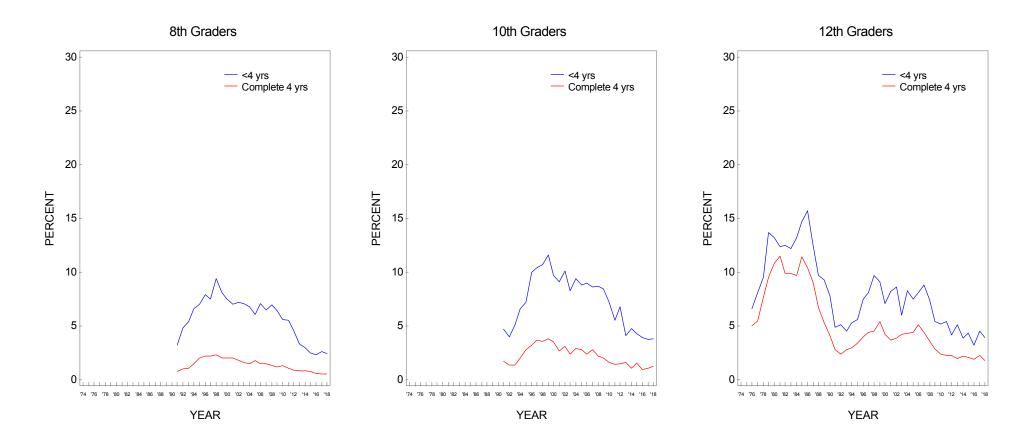


FIGURE 81 Cocaine\*: Trends in Annual Prevalence by Region

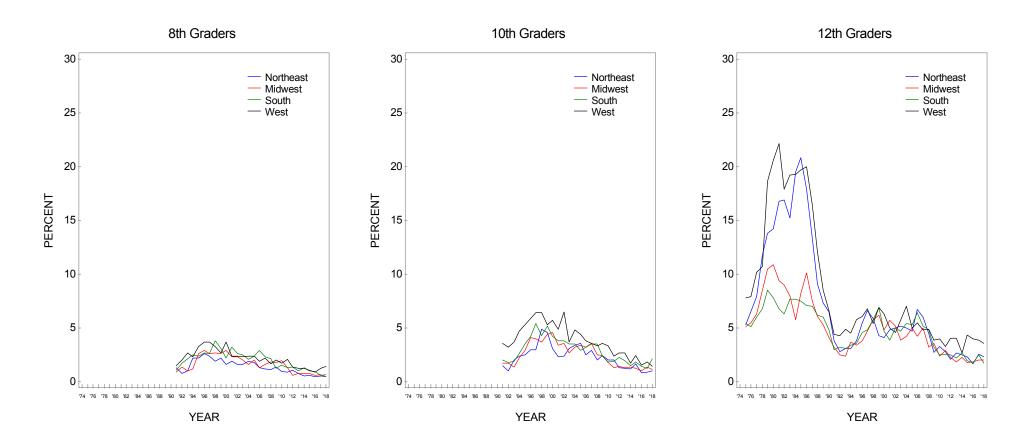


FIGURE 82
Cocaine\*: Trends in Annual Prevalence by Population Density

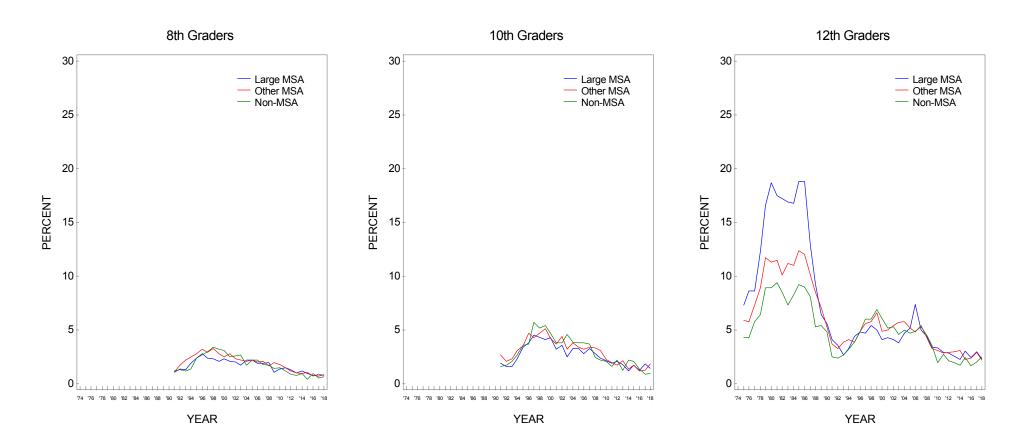
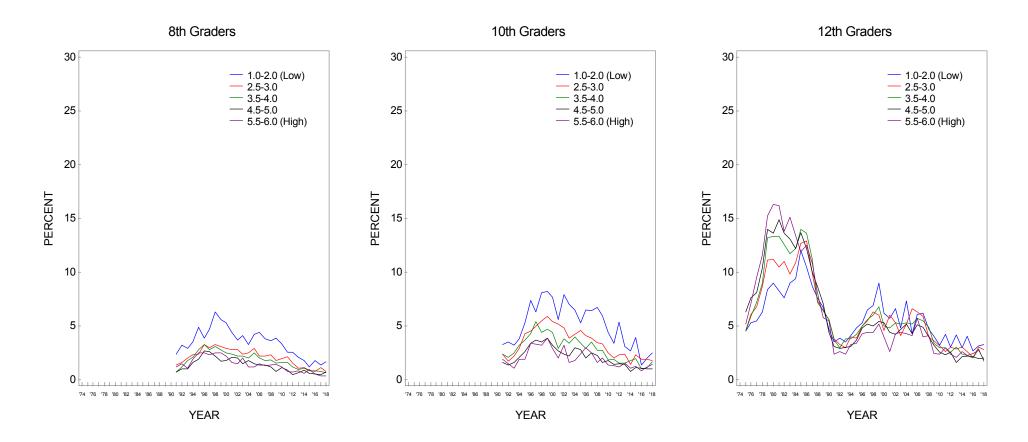


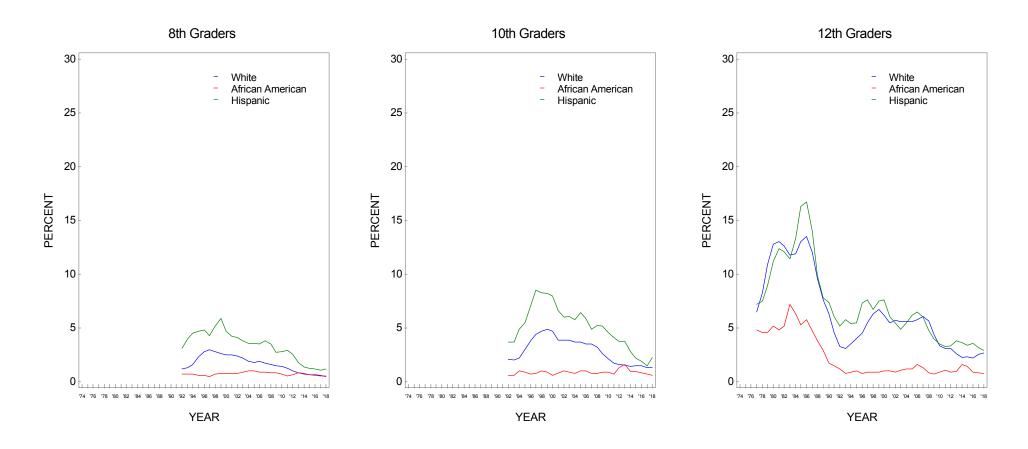
FIGURE 83
Cocaine\*: Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Cocaine in any form.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 84
Cocaine\*: Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Cocaine in any form.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 85 Crack: Trends in Annual Prevalence by Gender

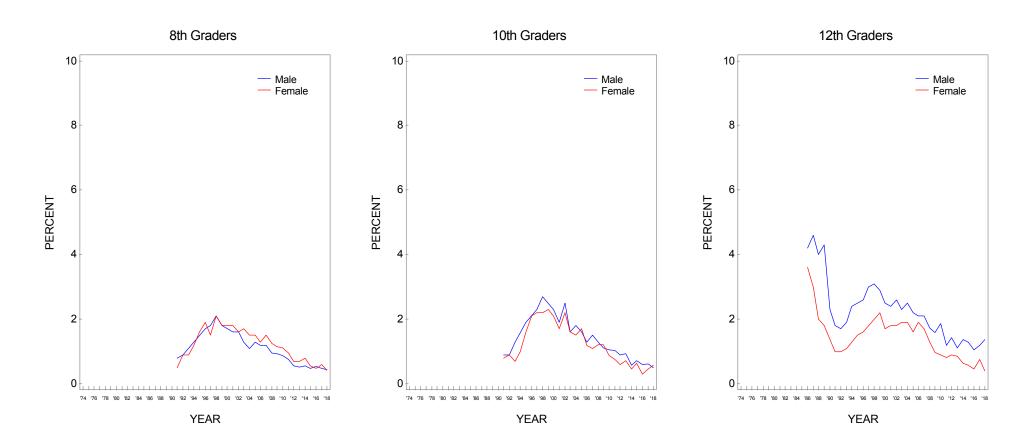


FIGURE 86 Crack: Trends in Annual Prevalence by College Plans

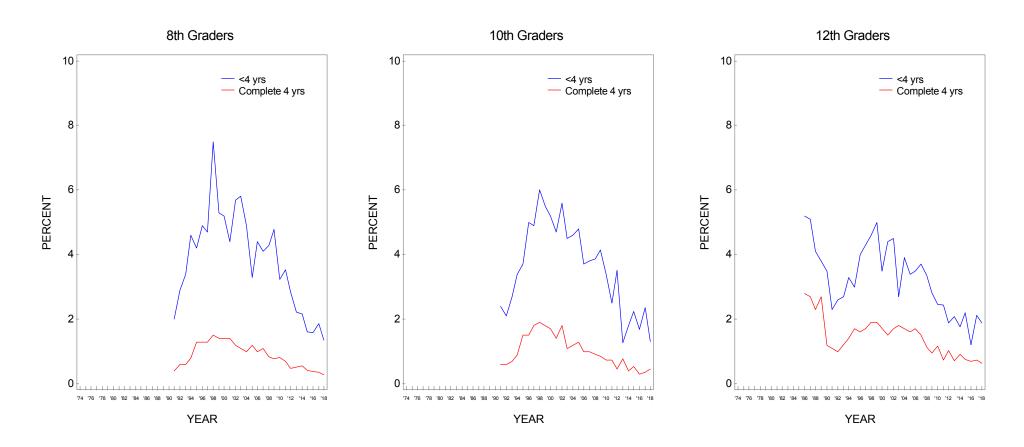


FIGURE 87 Crack: Trends in Annual Prevalence by Region

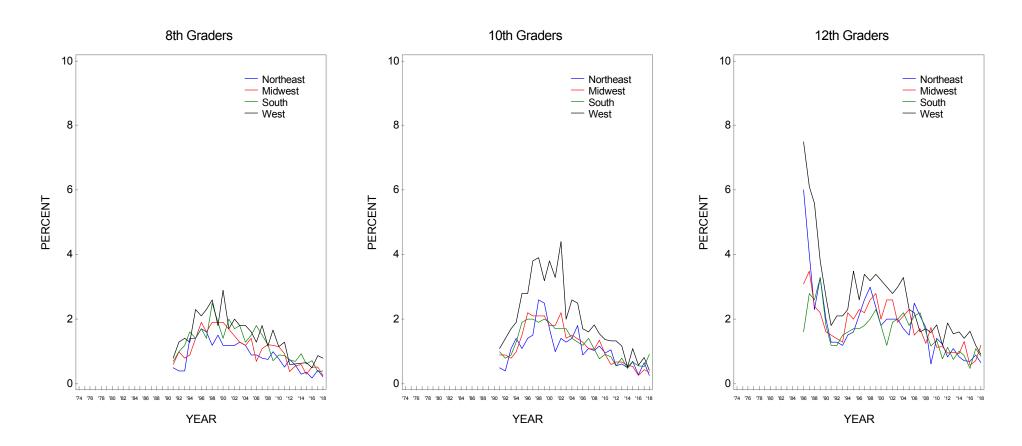


FIGURE 88
Crack: Trends in Annual Prevalence by Population Density

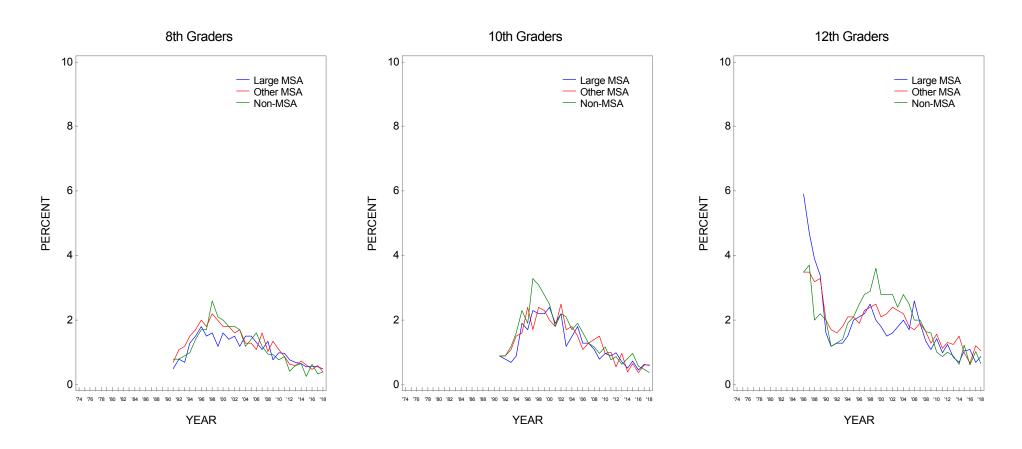
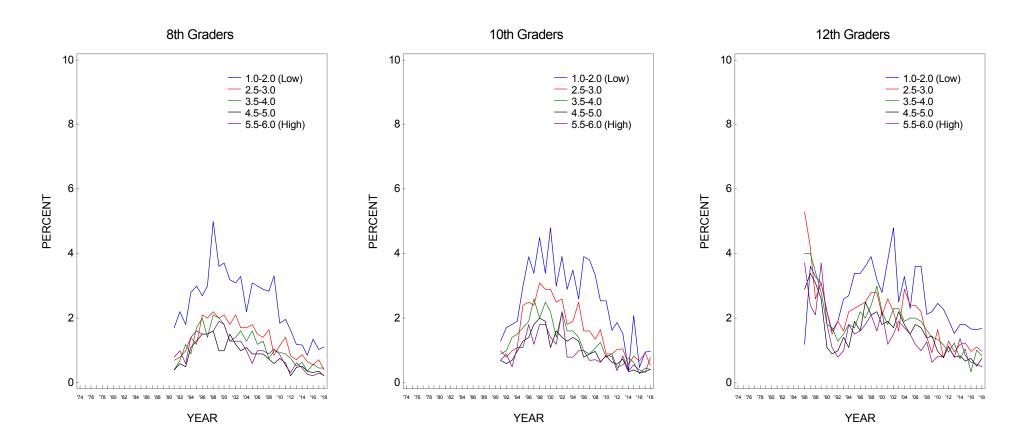
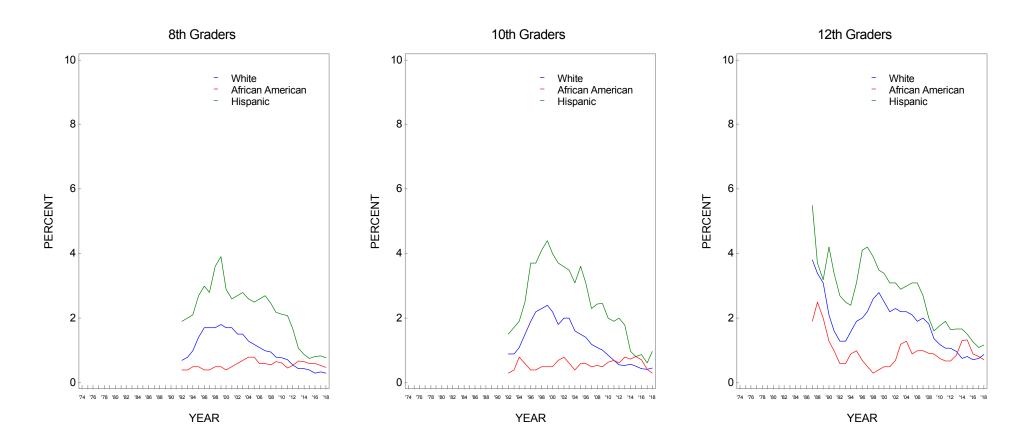


FIGURE 89
Crack: Trends in Annual Prevalence by Average Education Level of Parents\*



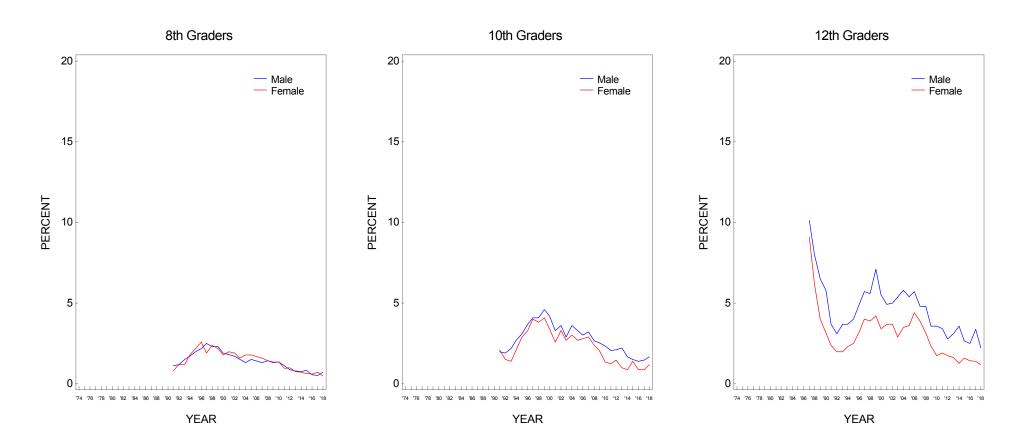
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 90 Crack: Trends in Annual Prevalence by Race/Ethnicity\*



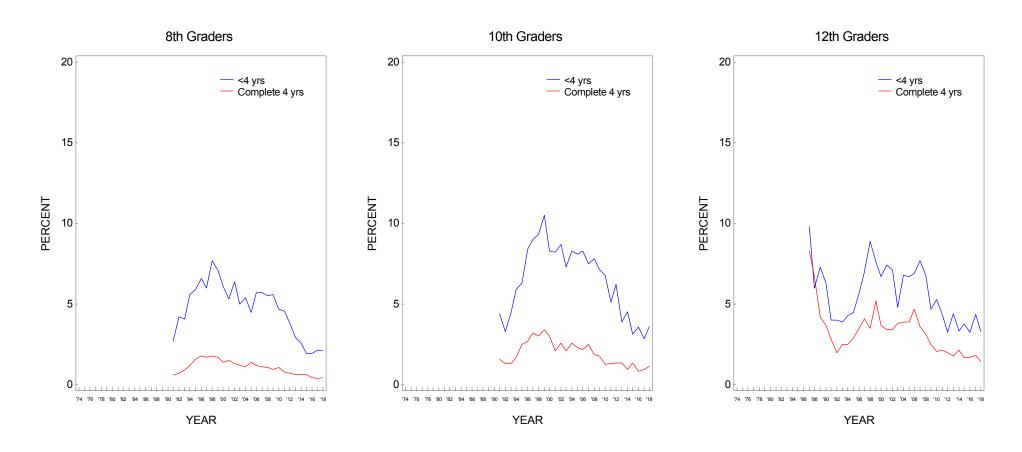
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 91 Cocaine other than Crack\*: Trends in Annual Prevalence by Gender



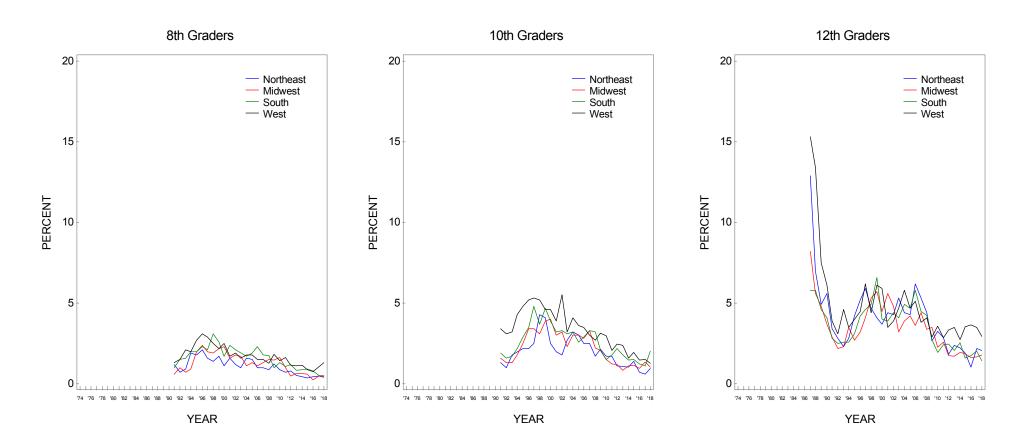
<sup>\*</sup>Almost entirely powder cocaine for many years.

FIGURE 92 Cocaine other than Crack\*: Trends in Annual Prevalence by College Plans



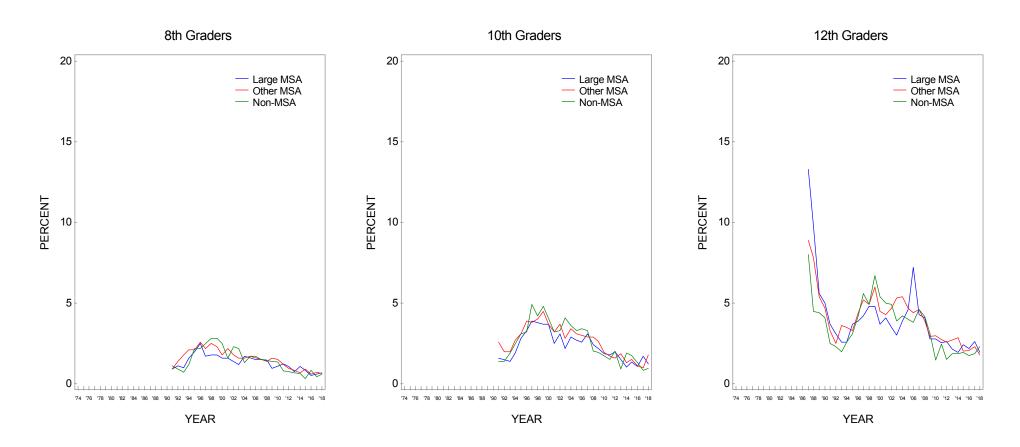
<sup>\*</sup>Almost entirely powder cocaine for many years.

FIGURE 93
Cocaine other than Crack\*: Trends in Annual Prevalence by Region



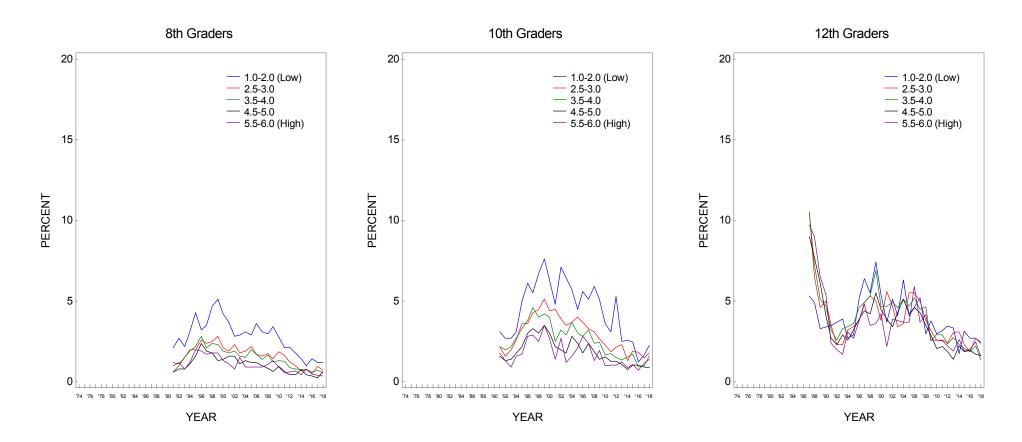
<sup>\*</sup>Almost entirely powder cocaine for many years.

FIGURE 94
Cocaine other than Crack\*: Trends in Annual Prevalence by Population Density



<sup>\*</sup>Almost entirely powder cocaine for many years.

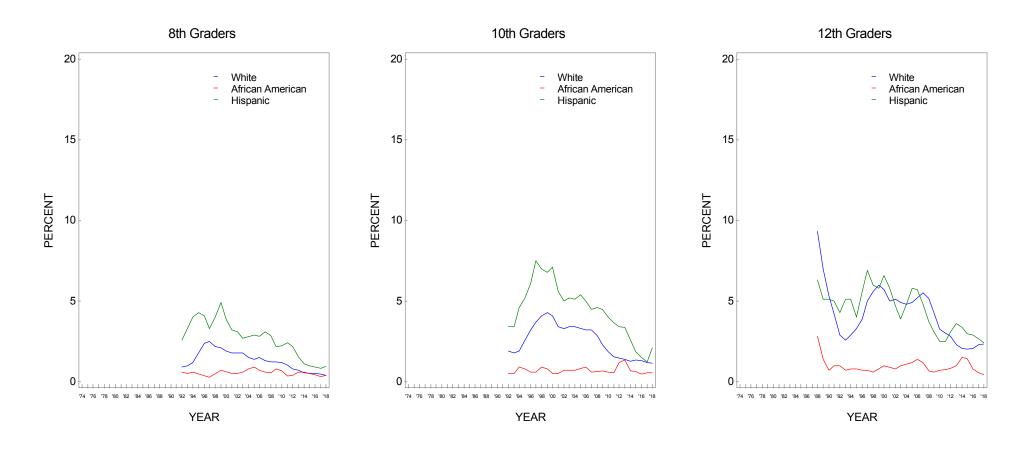
FIGURE 95
Cocaine other than Crack\*: Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Almost entirely powder cocaine for many years.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 96
Cocaine other than Crack\*: Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Almost entirely powder cocaine for many years.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 97 Heroin: Trends in Annual Prevalence by Gender

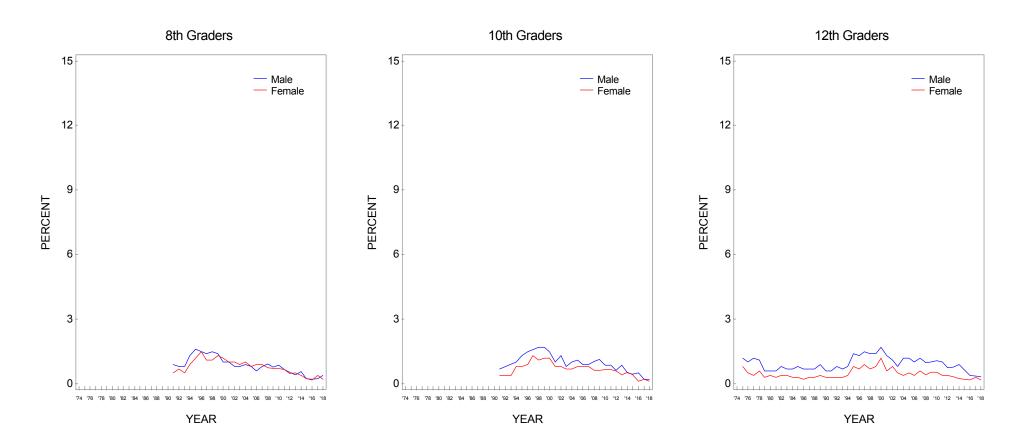


FIGURE 98 Heroin: Trends in Annual Prevalence by College Plans

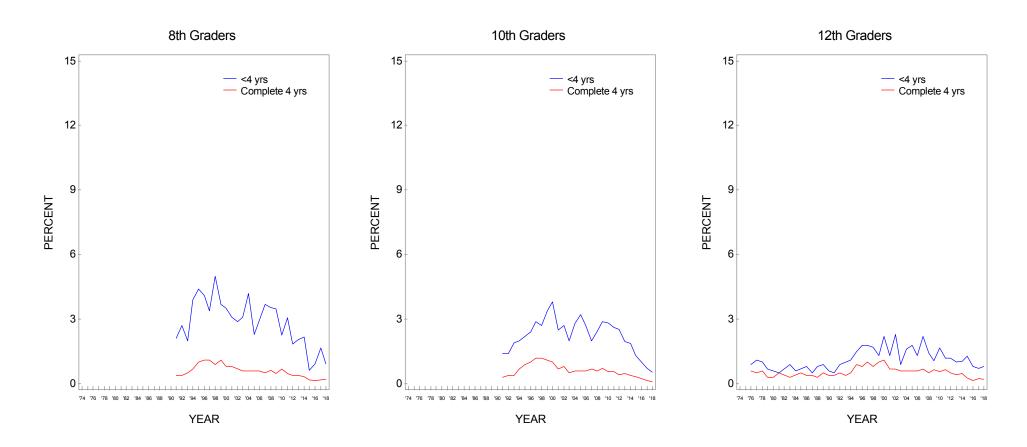


FIGURE 99 Heroin: Trends in Annual Prevalence by Region

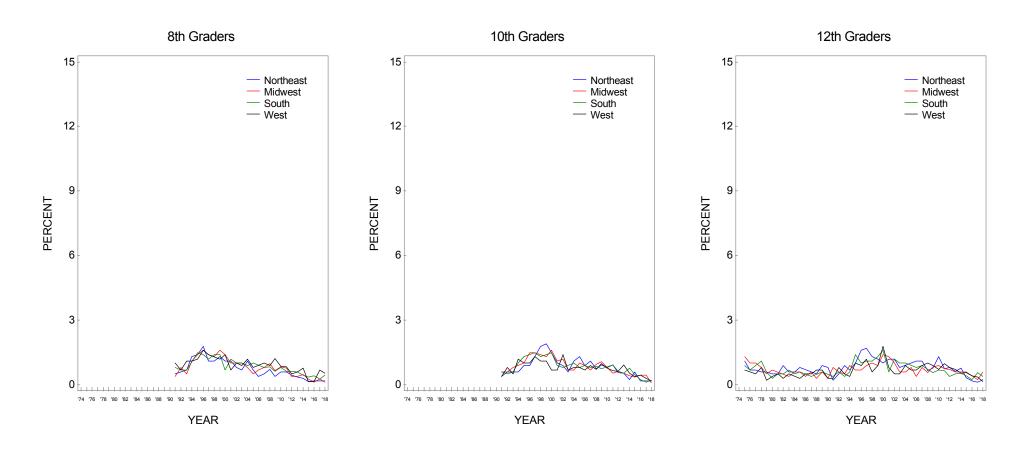


FIGURE 100
Heroin: Trends in Annual Prevalence by Population Density

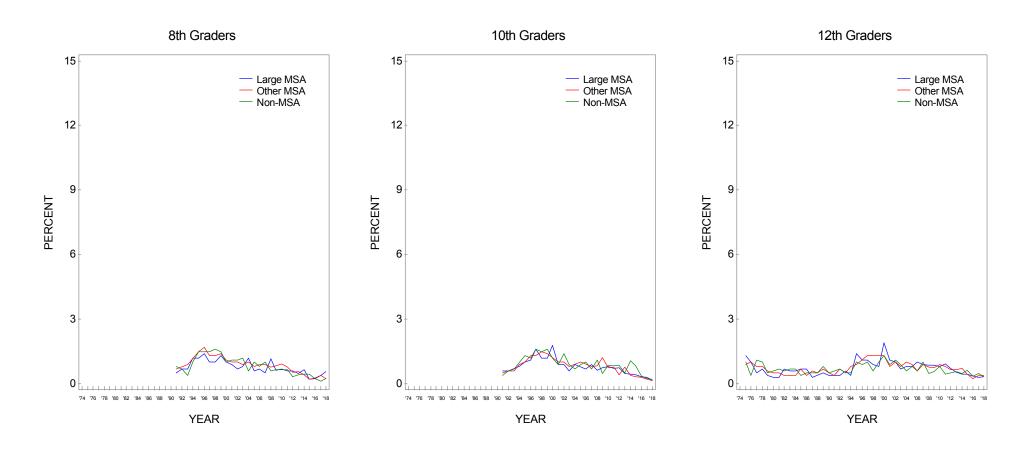
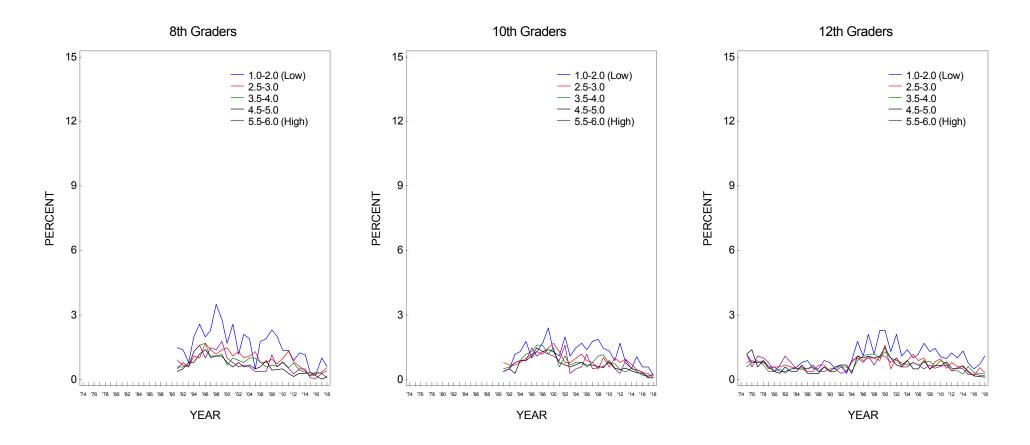
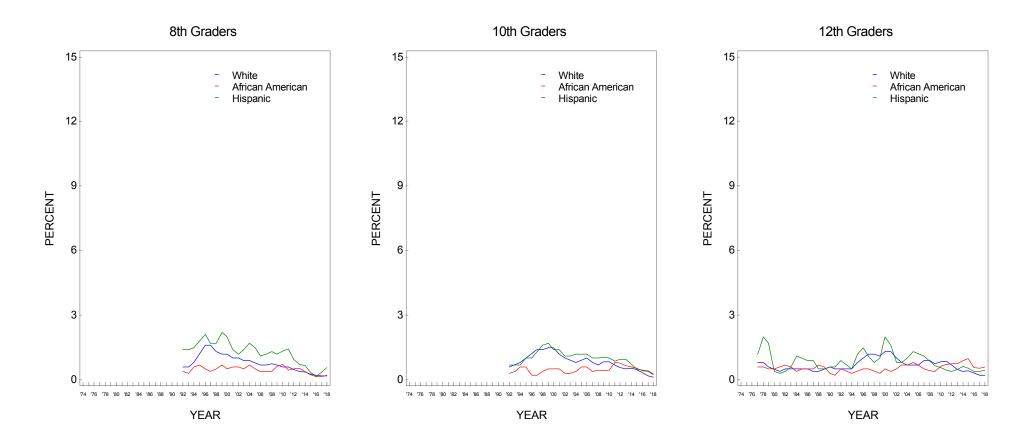


FIGURE 101
Heroin: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 102
Heroin: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 103 Heroin with a Needle: Trends in Annual Prevalence by Gender

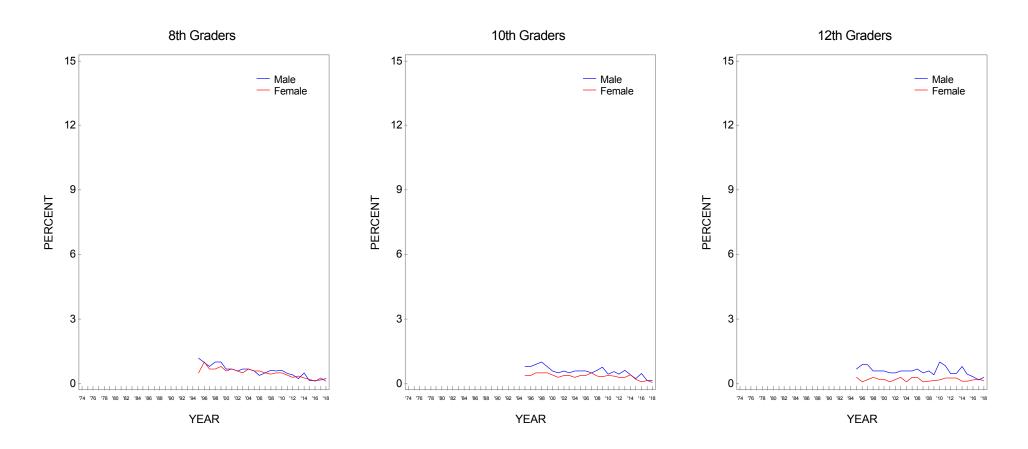


FIGURE 104
Heroin with a Needle: Trends in Annual Prevalence by College Plans

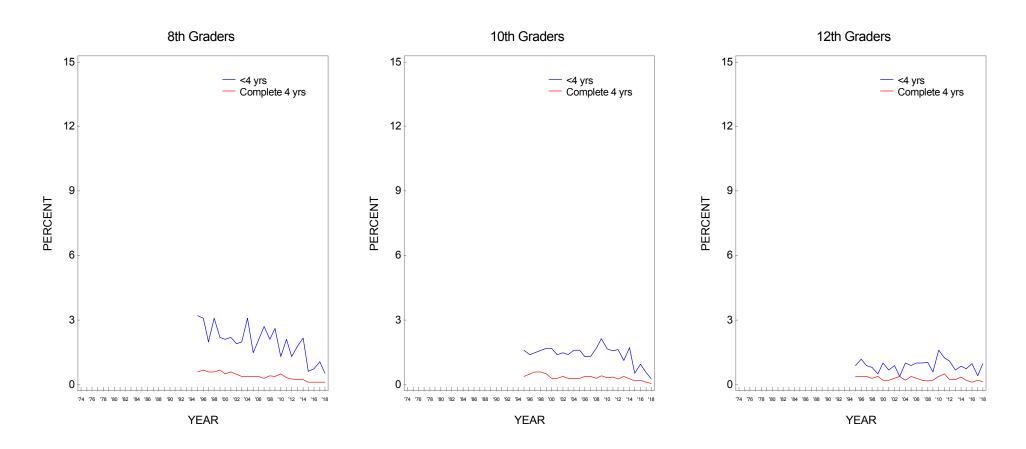


FIGURE 105
Heroin with a Needle: Trends in Annual Prevalence by Region

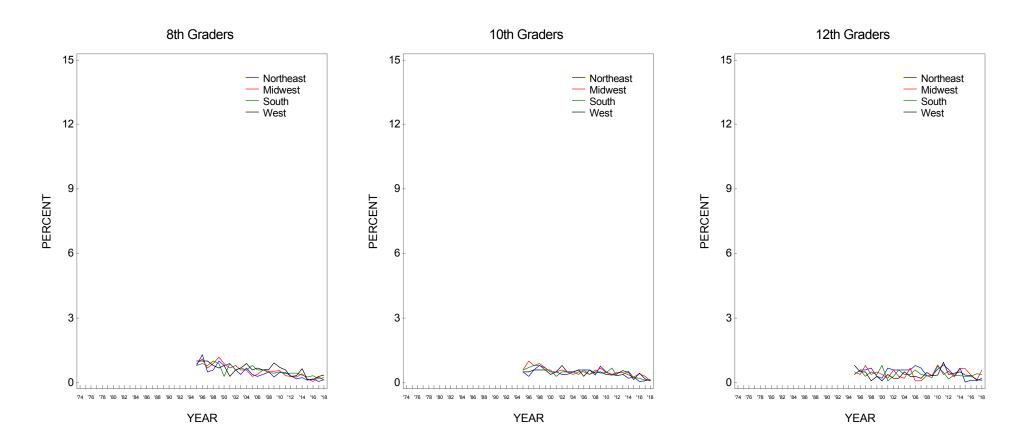


FIGURE 106
Heroin with a Needle: Trends in Annual Prevalence by Population Density

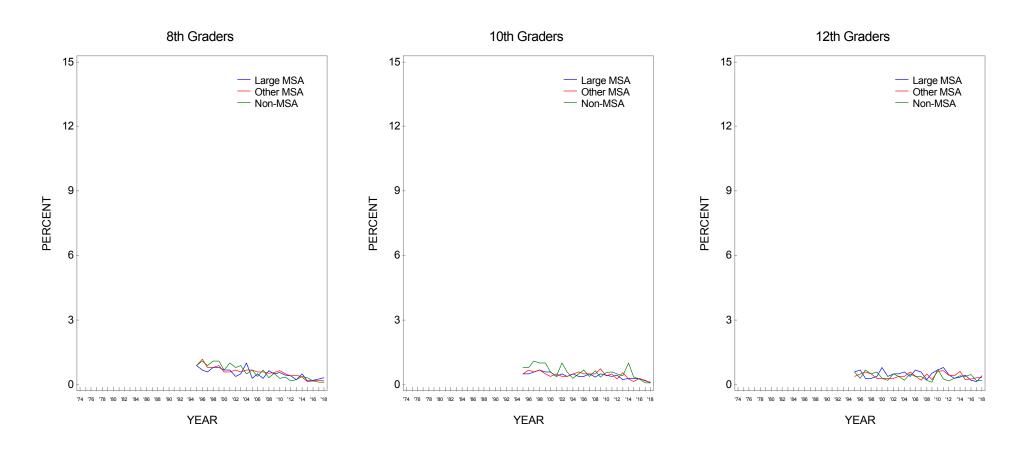
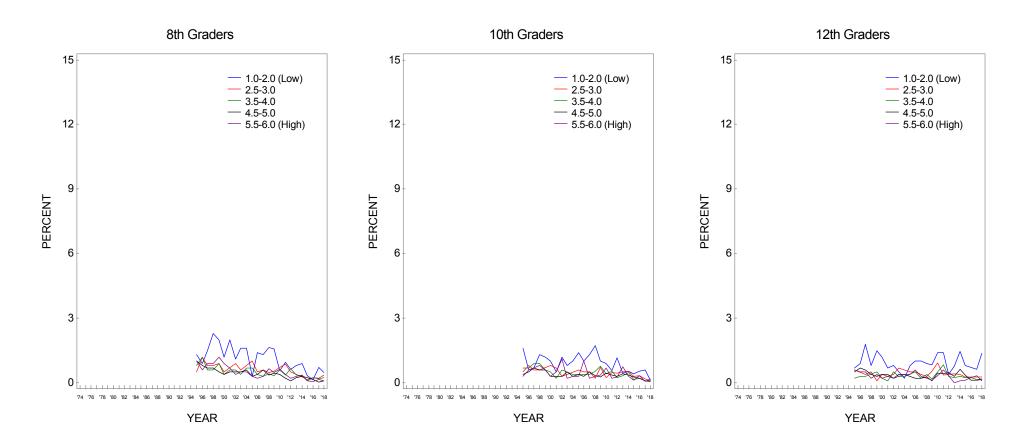
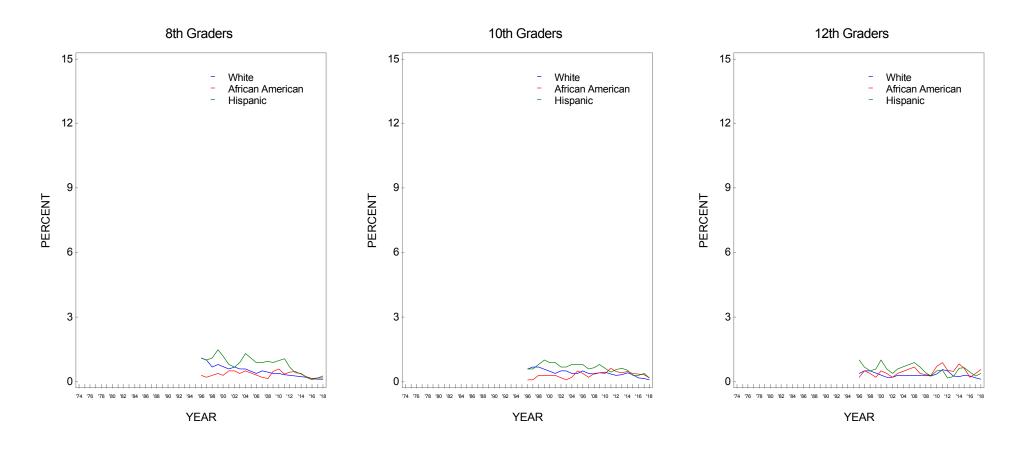


FIGURE 107
Heroin with a Needle: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 108
Heroin with a Needle: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 109
Heroin without a Needle: Trends in Annual Prevalence by Gender

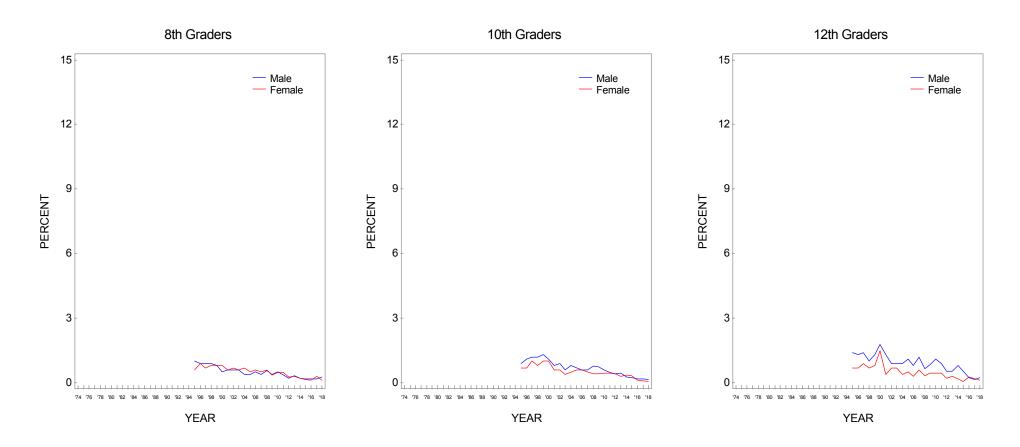


FIGURE 110 Heroin without a Needle: Trends in Annual Prevalence by College Plans

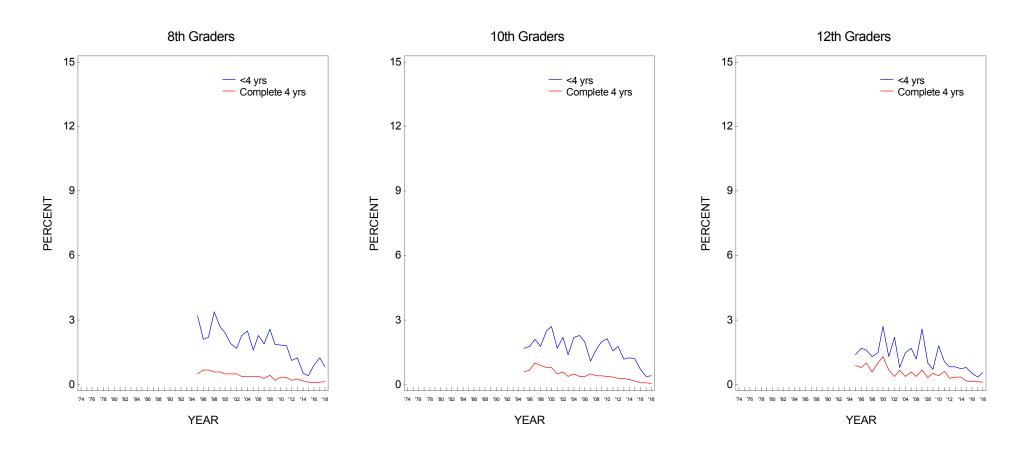


FIGURE 111
Heroin without a Needle: Trends in Annual Prevalence by Region

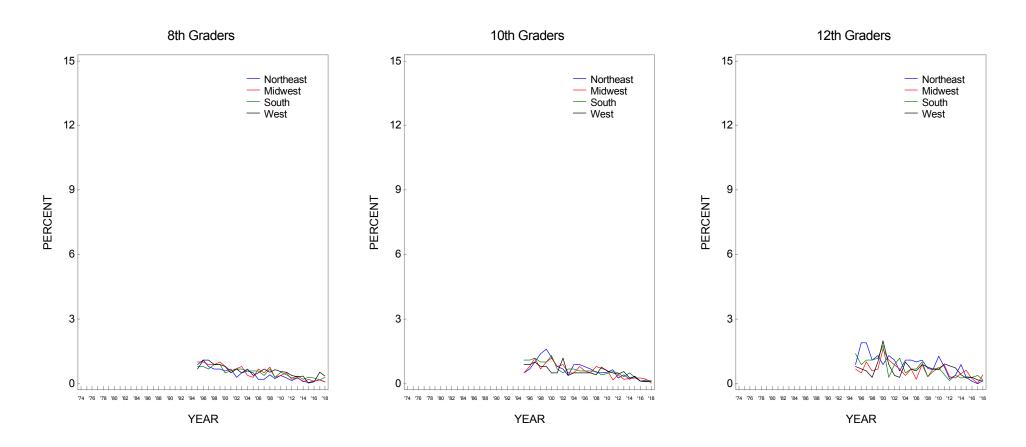


FIGURE 112
Heroin without a Needle: Trends in Annual Prevalence by Population Density

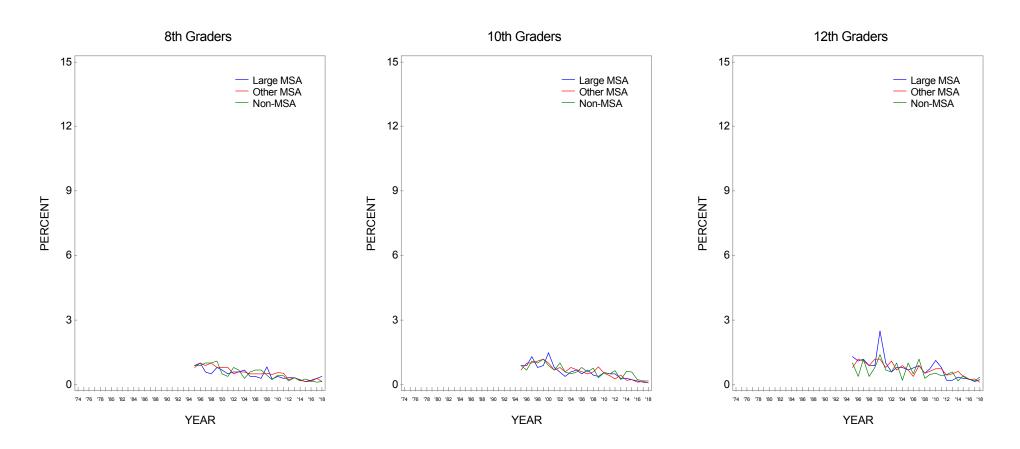
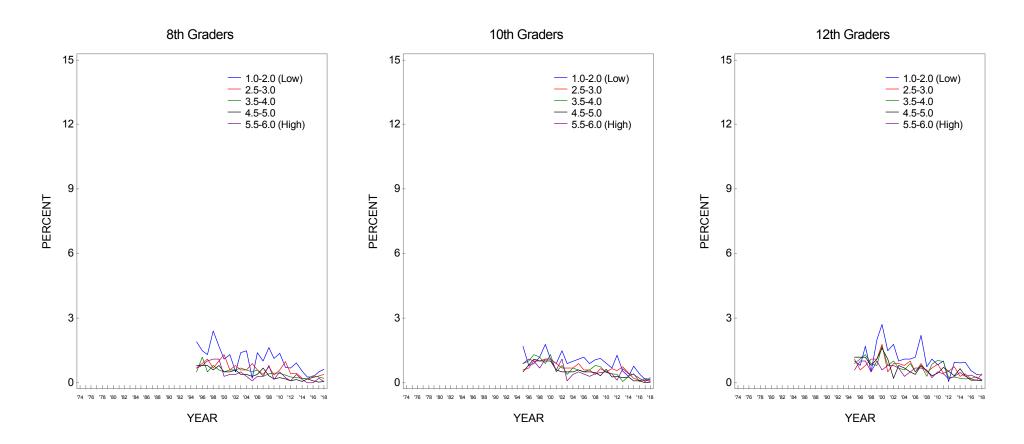
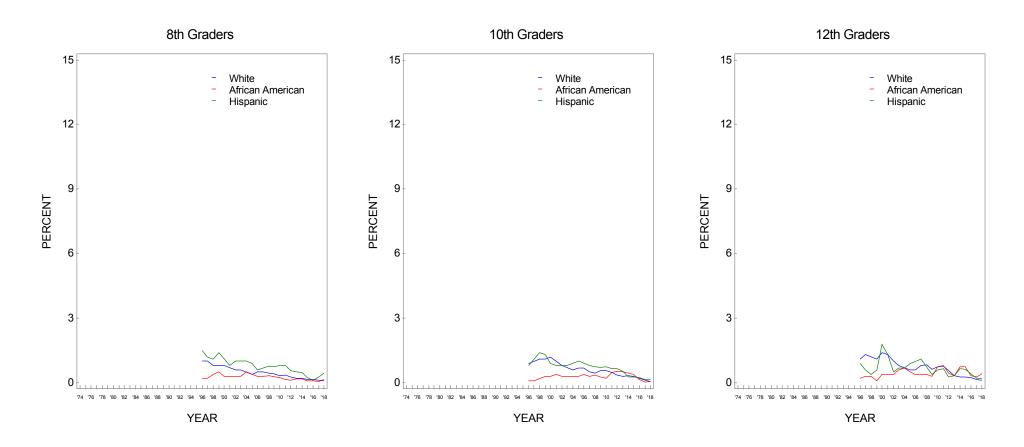


FIGURE 113
Heroin without a Needle: Trends in Annual Prevalence by Average Education Level of Parents\*



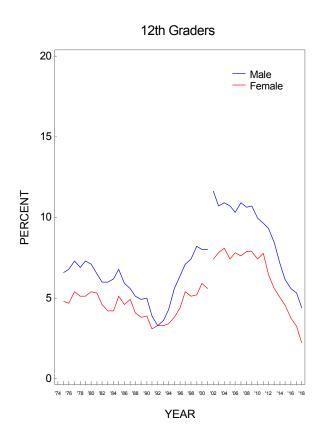
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 114
Heroin without a Needle: Trends in Annual Prevalence by Race/Ethnicity\*



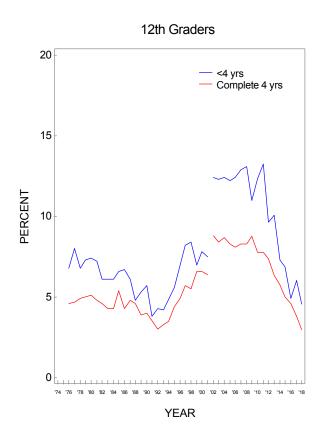
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 115 Narcotics other than Heroin:\* Trends in Annual Prevalence by Gender



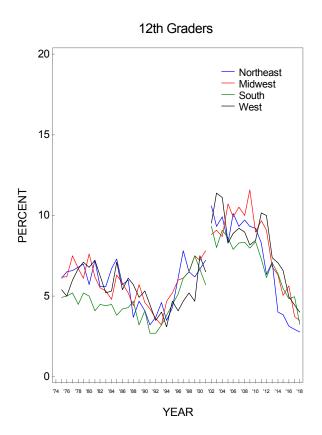
<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

## FIGURE 116 Narcotics other than Heroin:\* Trends in Annual Prevalence by College Plans



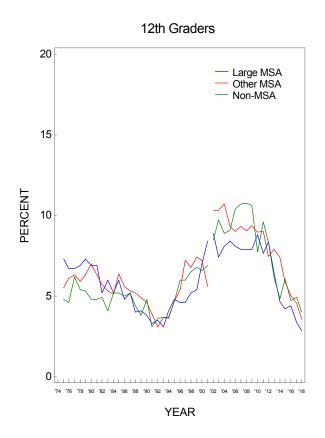
<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

## FIGURE 117 Narcotics other than Heroin:\* Trends in Annual Prevalence by Region



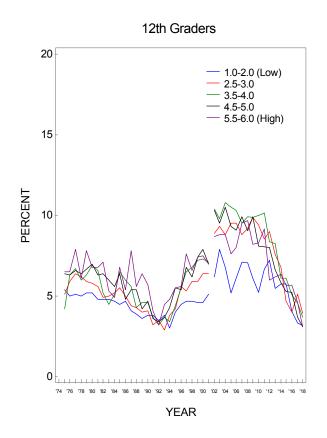
<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

## FIGURE 118 Narcotics other than Heroin:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

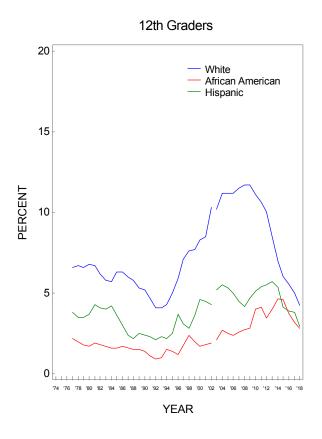
FIGURE 119
Narcotics other than Heroin:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

# FIGURE 120 Narcotics other than Heroin:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 121 OxyContin: Trends in Annual Prevalence by Gender

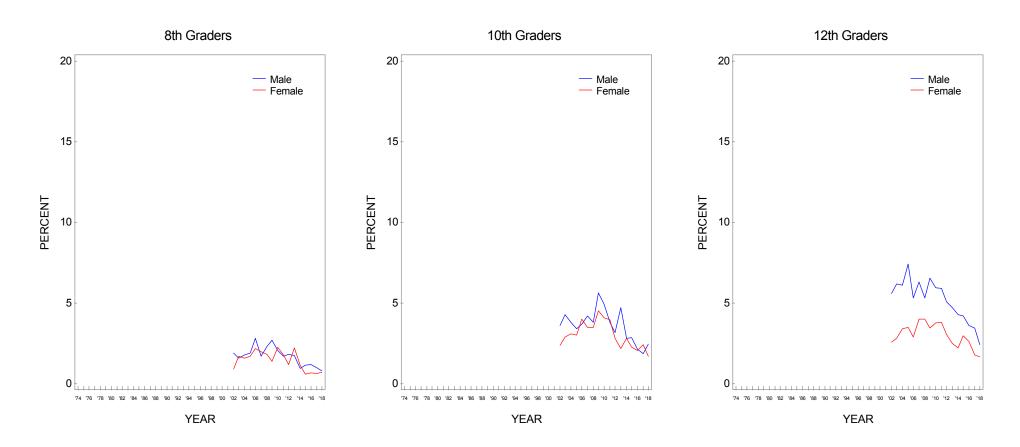


FIGURE 122 OxyContin: Trends in Annual Prevalence by College Plans

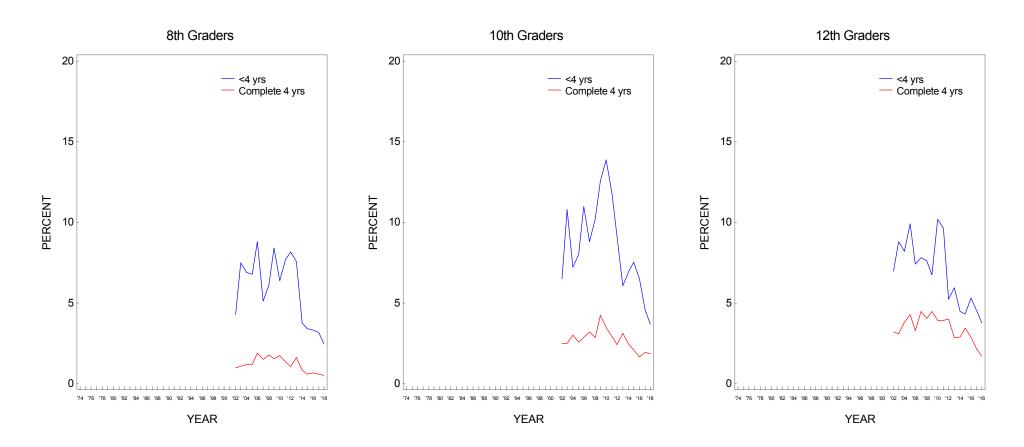


FIGURE 123
OxyContin: Trends in Annual Prevalence by Region

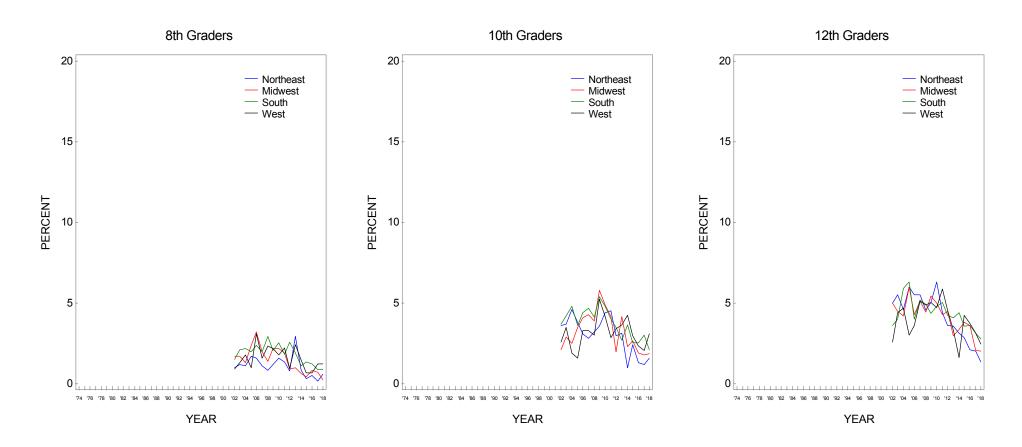


FIGURE 124
OxyContin: Trends in Annual Prevalence by Population Density

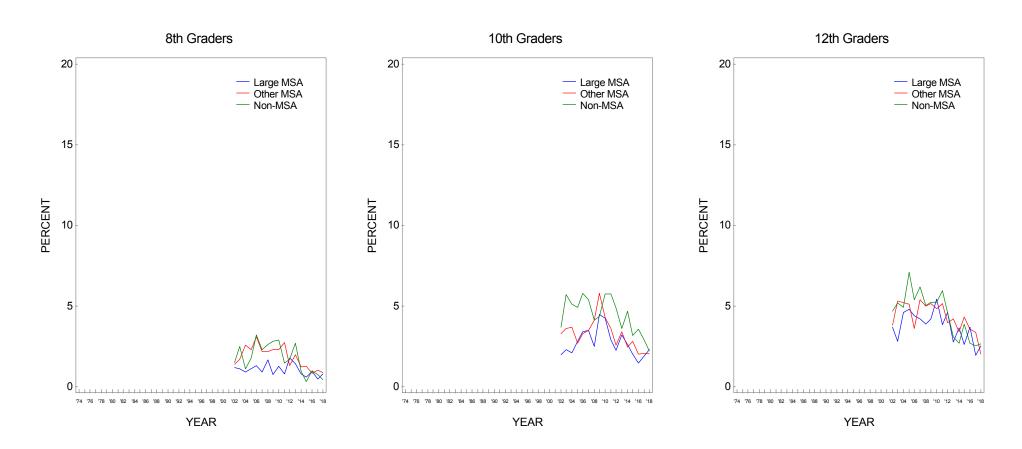
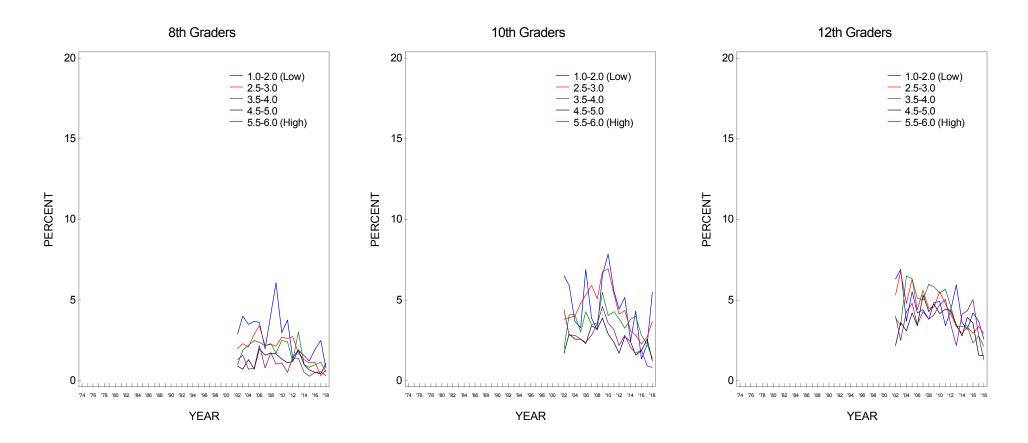
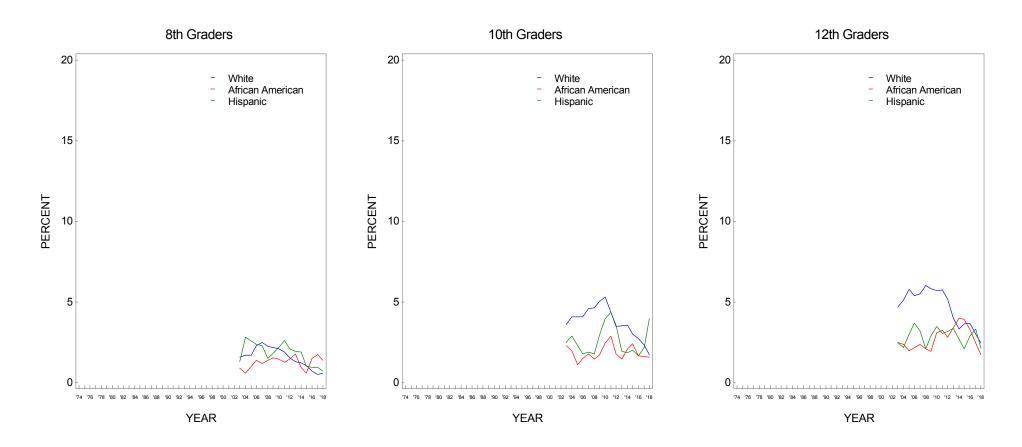


FIGURE 125
OxyContin: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 126
OxyContin: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 127 Vicodin: Trends in Annual Prevalence by Gender

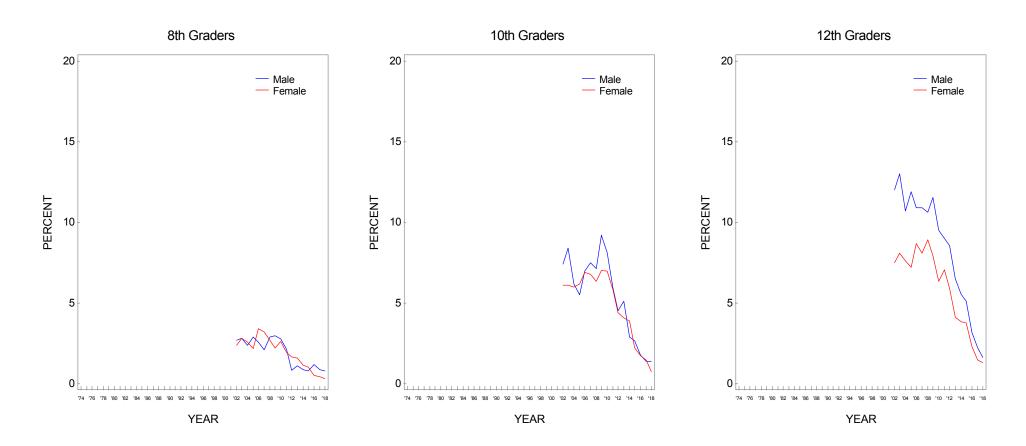


FIGURE 128 Vicodin: Trends in Annual Prevalence by College Plans

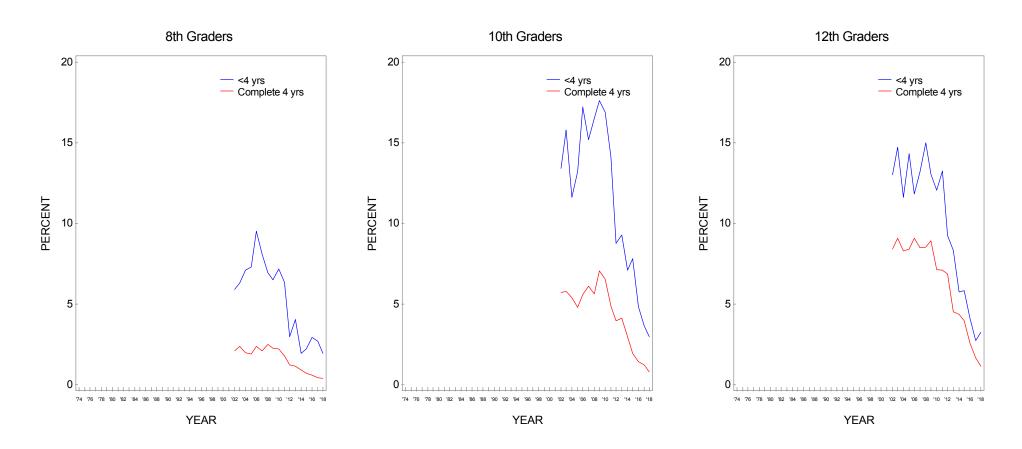


FIGURE 129 Vicodin: Trends in Annual Prevalence by Region

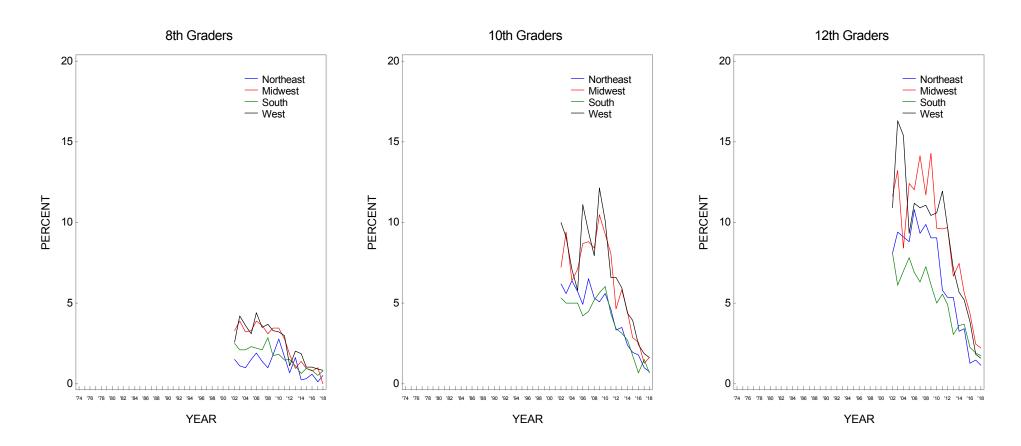


FIGURE 130 Vicodin: Trends in Annual Prevalence by Population Density

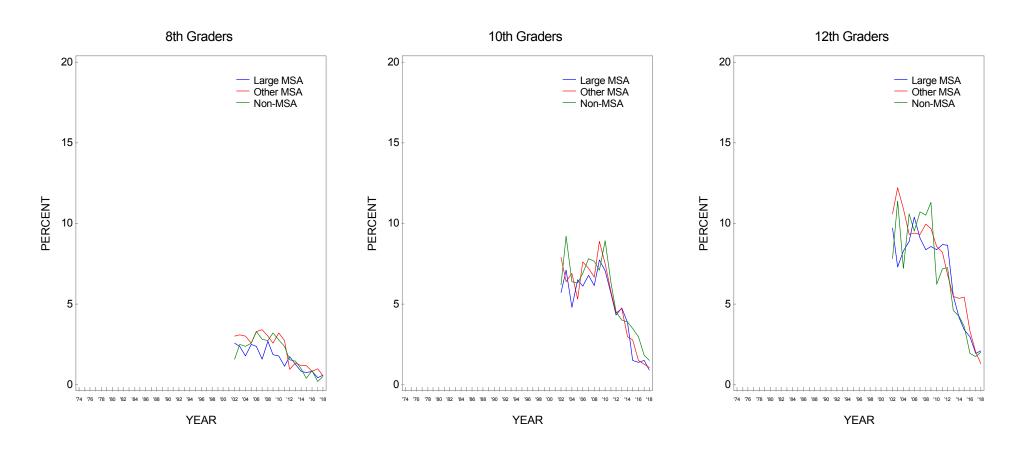
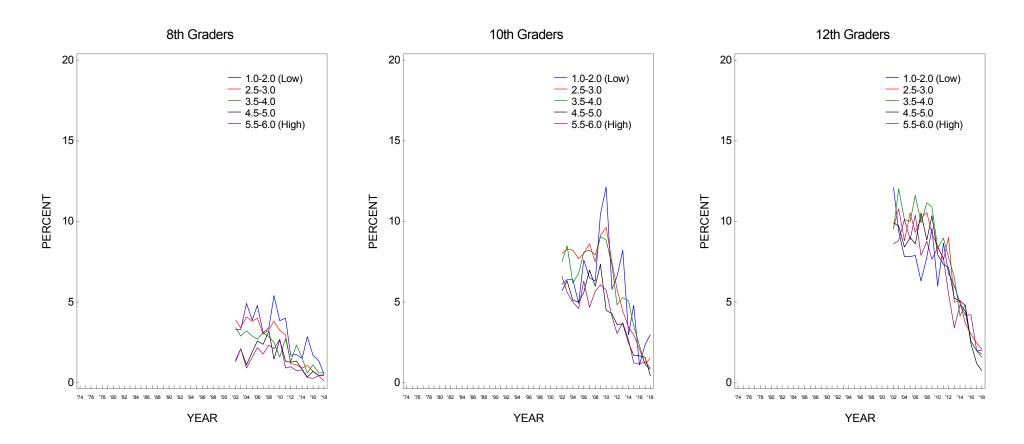
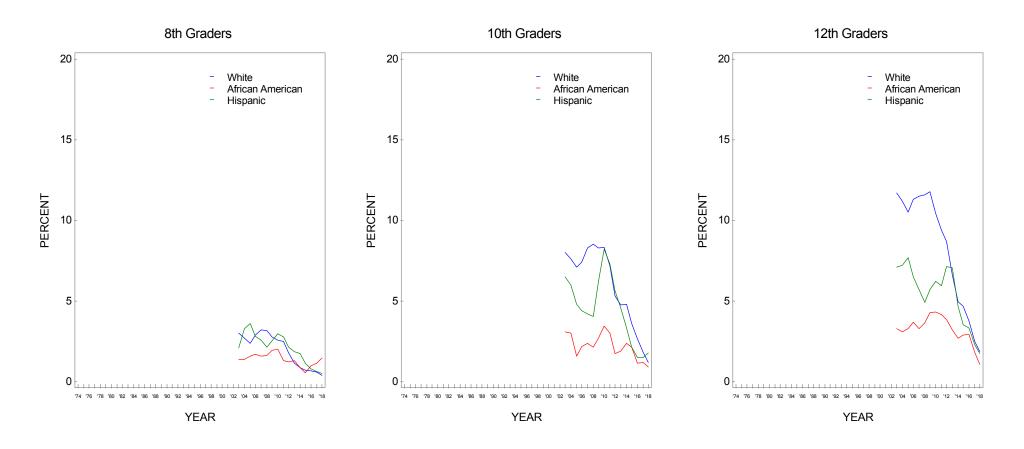


FIGURE 131
Vicodin: Trends in Annual Prevalence by Average Education Level of Parents\*



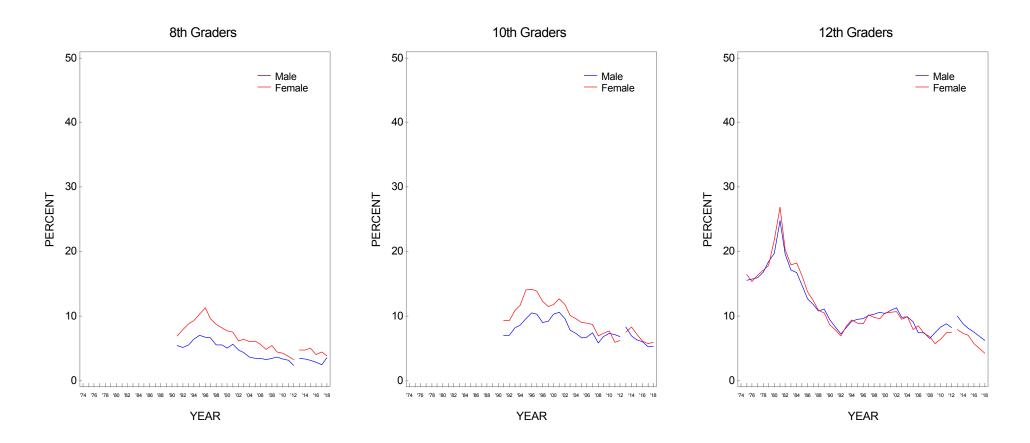
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 132
Vicodin: Trends in Annual Prevalence by Race/Ethnicity\*



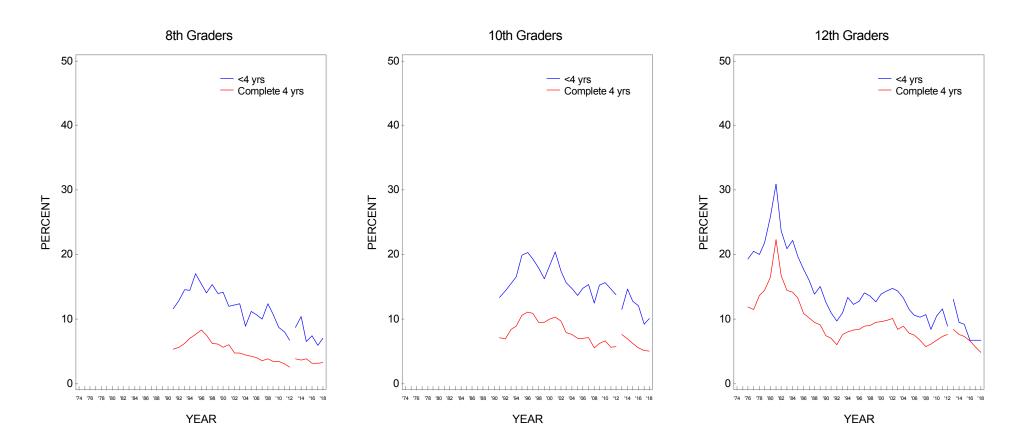
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 133
Amphetamines:\* Trends in Annual Prevalence by Gender



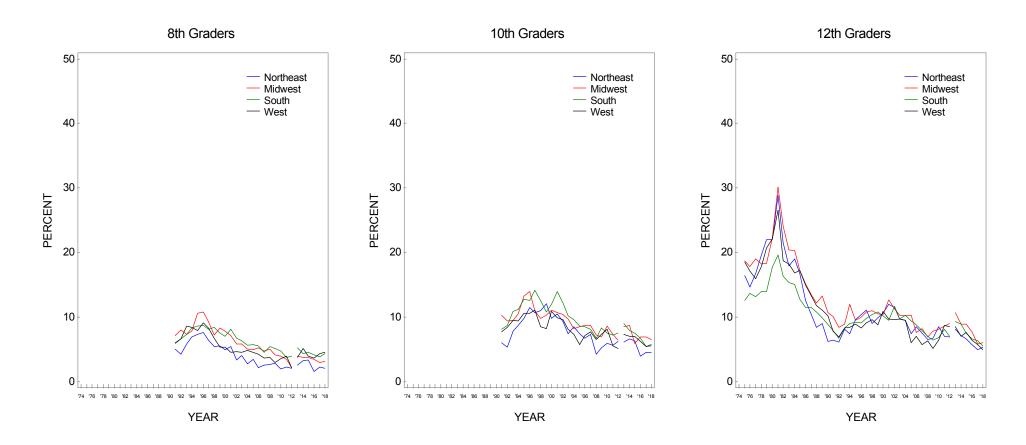
<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

FIGURE 134
Amphetamines:\* Trends in Annual Prevalence by College Plans



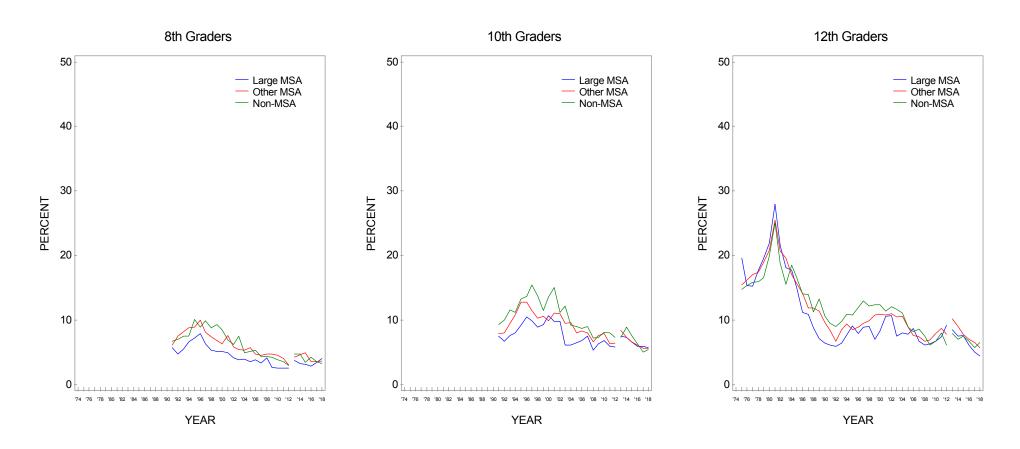
<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

FIGURE 135
Amphetamines:\* Trends in Annual Prevalence by Region



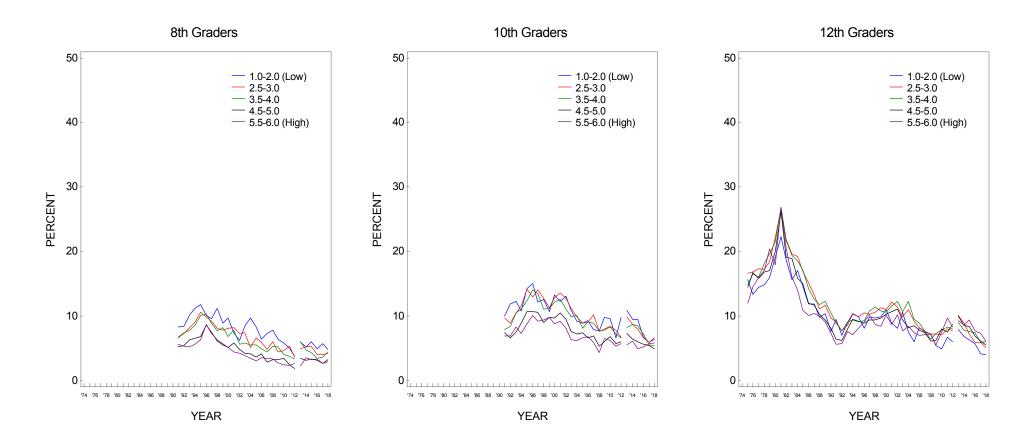
<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

FIGURE 136
Amphetamines:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

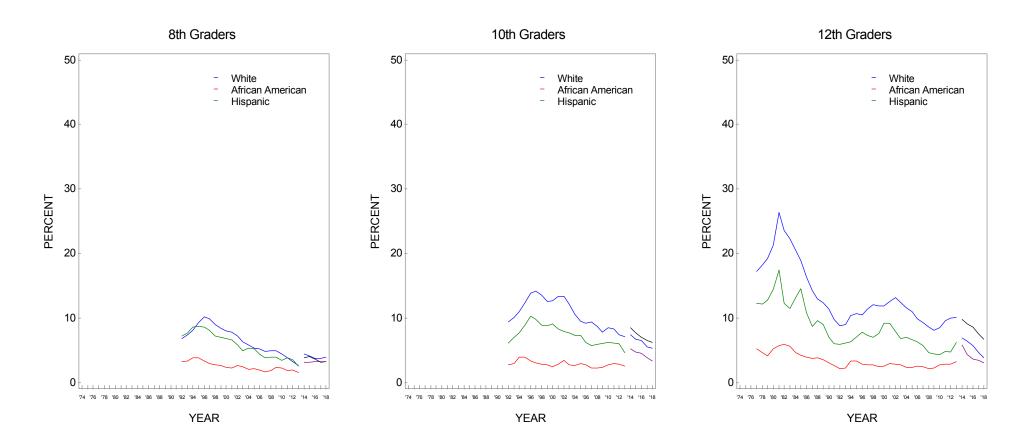
FIGURE 137
Amphetamines:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 138
Amphetamines:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 139 Ritalin: Trends in Annual Prevalence by Gender

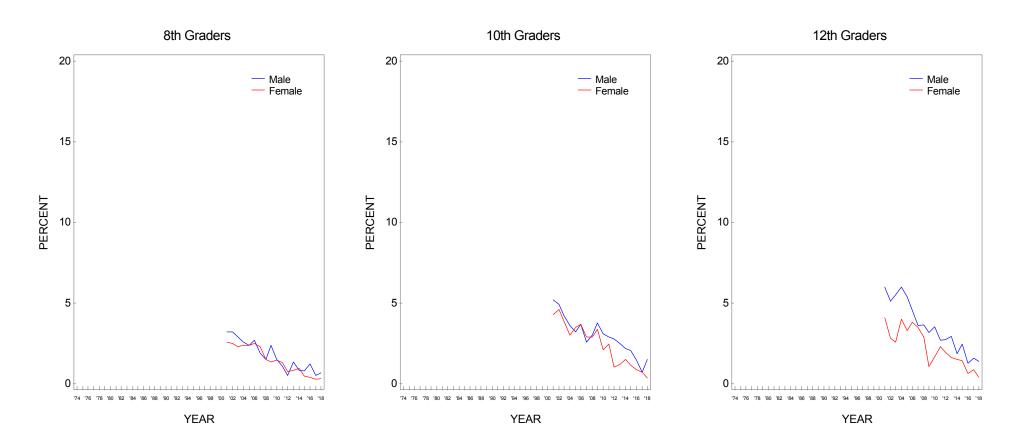


FIGURE 140 Ritalin: Trends in Annual Prevalence by College Plans

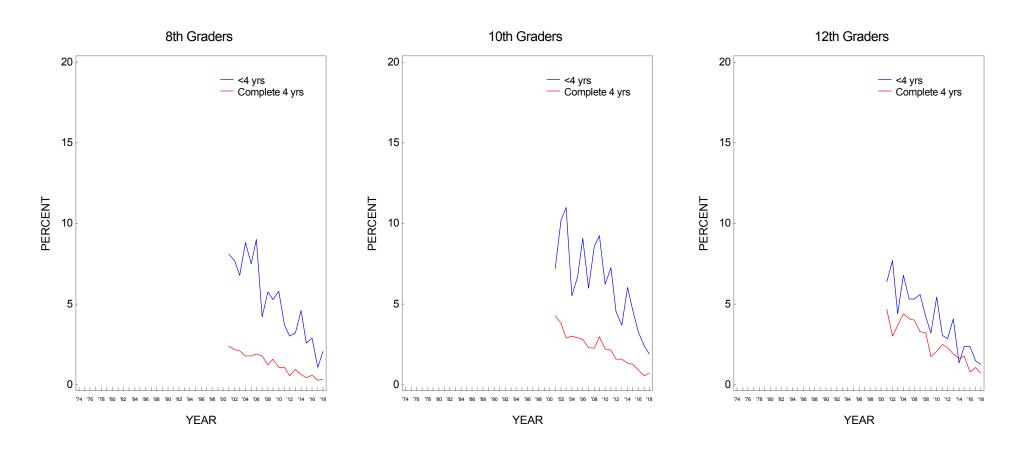


FIGURE 141 Ritalin: Trends in Annual Prevalence by Region

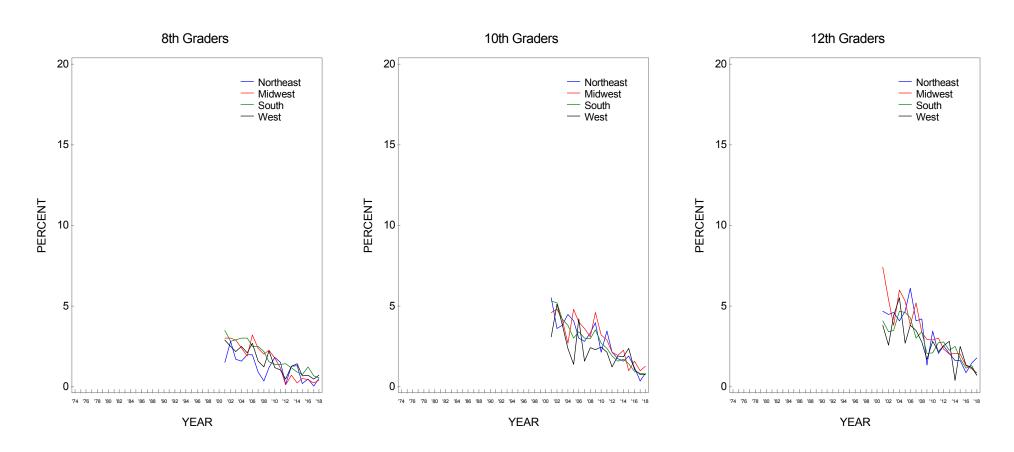


FIGURE 142
Ritalin: Trends in Annual Prevalence by Population Density

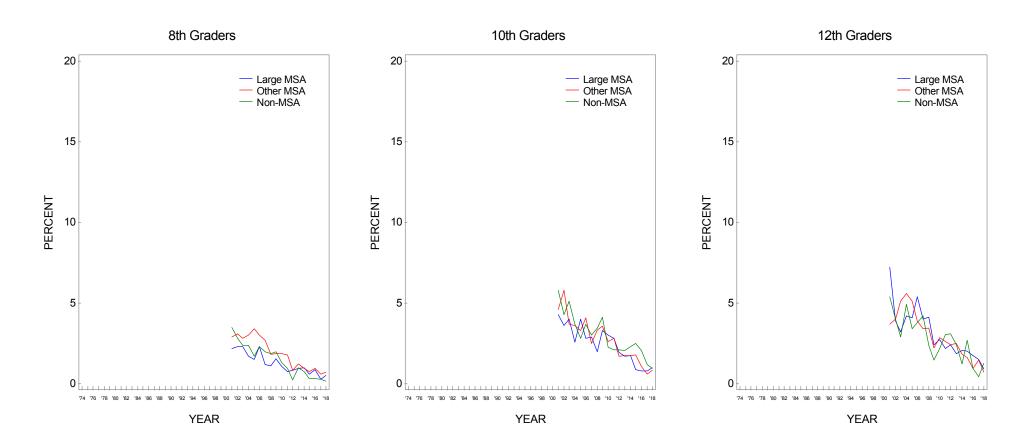
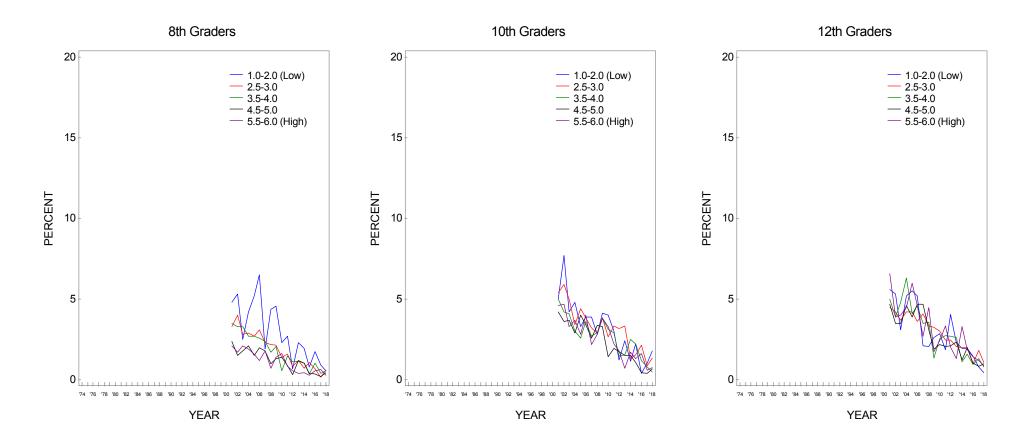
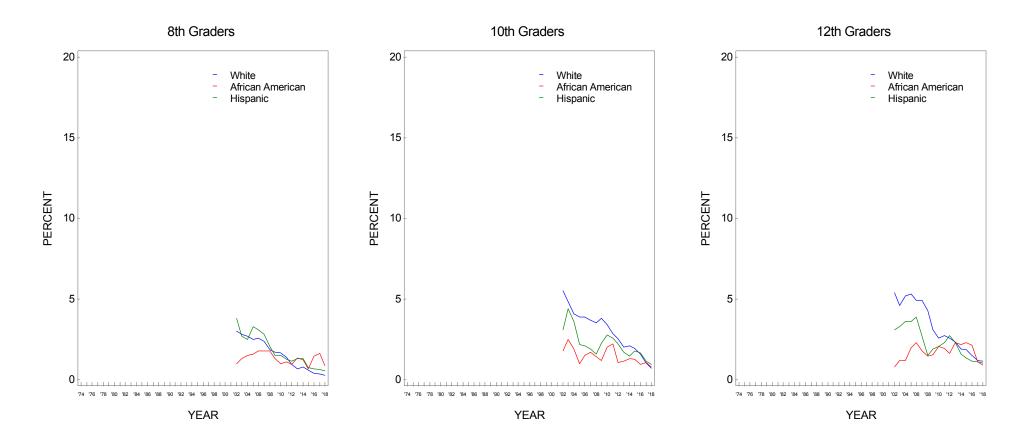


FIGURE 143
Ritalin: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 144
Ritalin: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 145
Adderall: Trends in Annual Prevalence by Gender

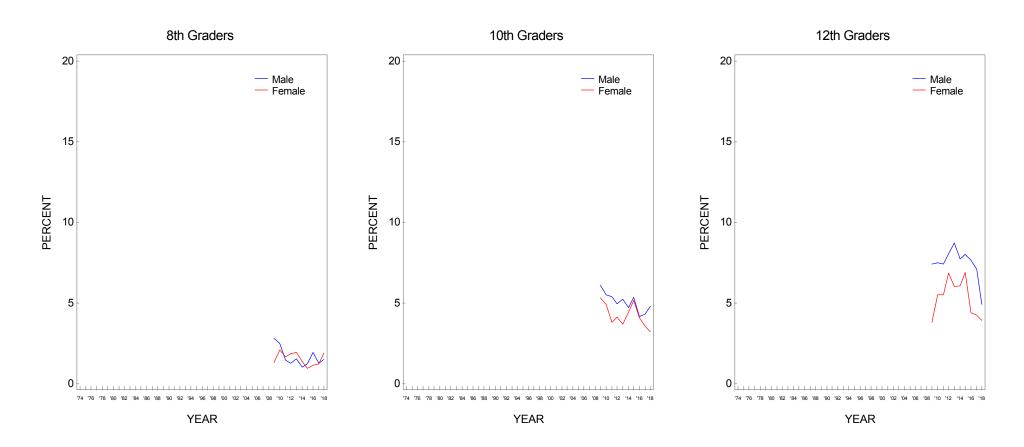


FIGURE 146 Adderall: Trends in Annual Prevalence by College Plans

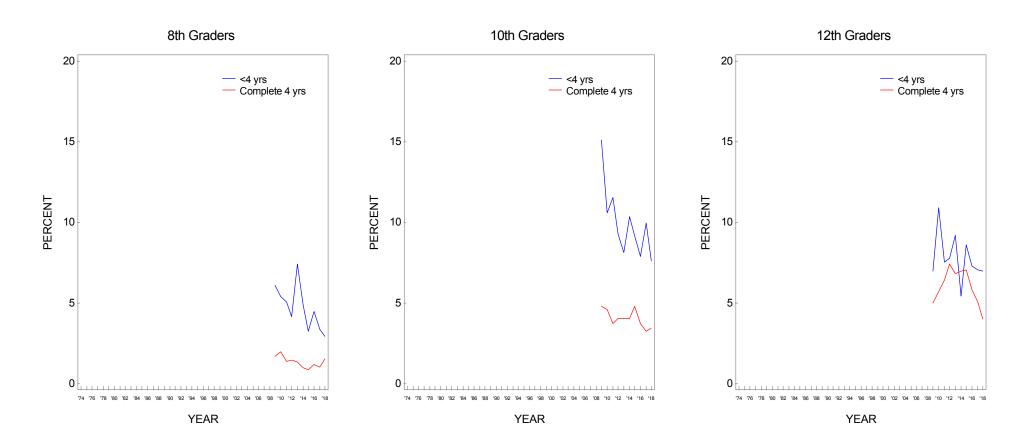


FIGURE 147 Adderall: Trends in Annual Prevalence by Region

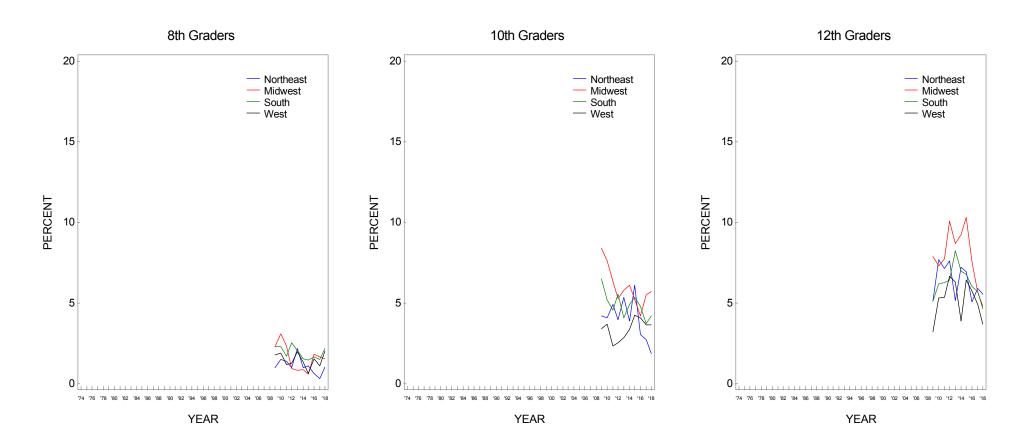


FIGURE 148
Adderall: Trends in Annual Prevalence by Population Density

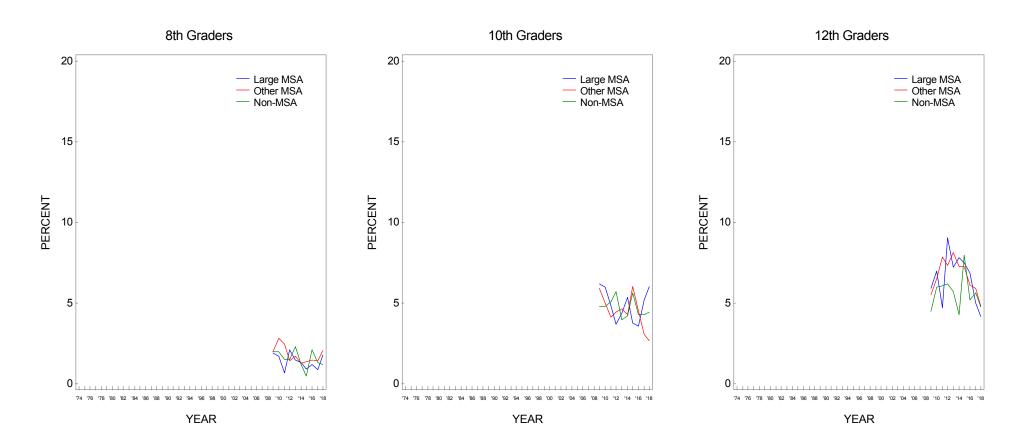
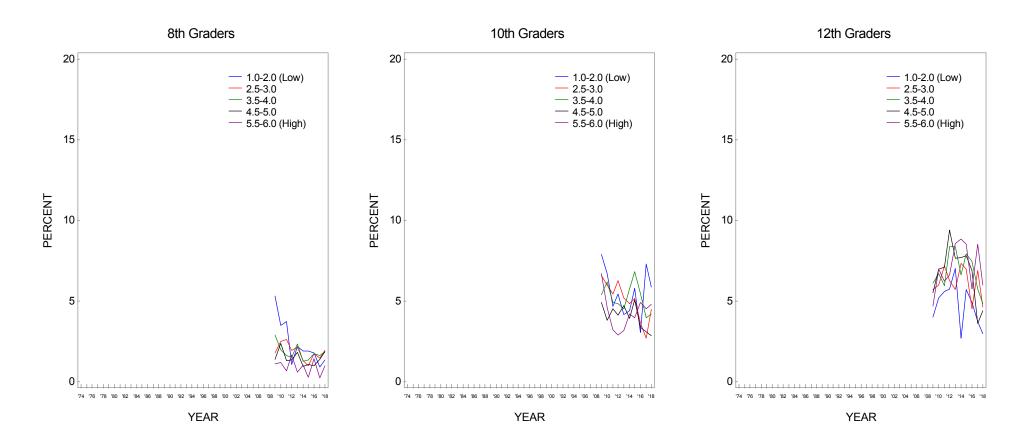
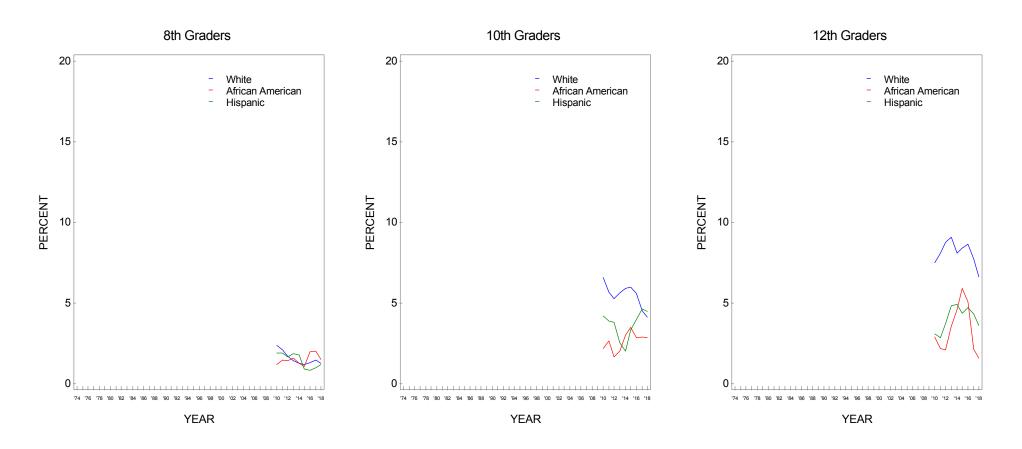


FIGURE 149
Adderall: Trends in Annual Prevalence by Average Education Level of Parents\*



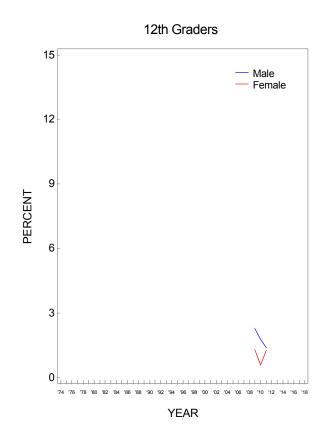
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 150
Adderall: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

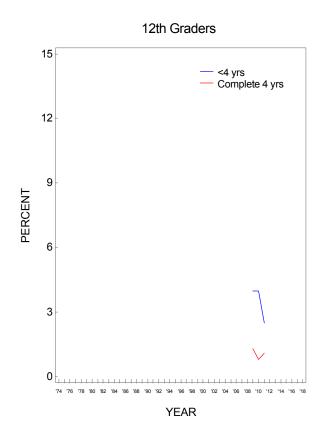
## FIGURE 151 Provigil:\* Trends in Annual Prevalence by Gender



 $\label{eq:Source.} \textit{Source.} \ \ \textit{The Monitoring the Future study, the University of Michigan.}$ 

\*Question discontinued in 2012.

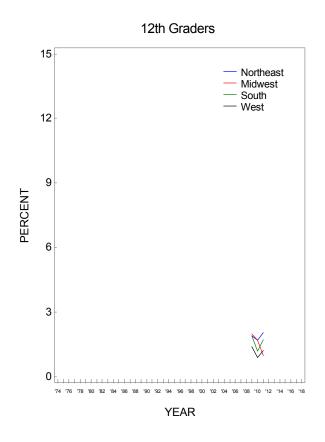
## FIGURE 152 Provigil:\* Trends in Annual Prevalence by College Plans



 $\label{eq:Source.} \textit{Source.} \ \ \textit{The Monitoring the Future study, the University of Michigan.}$ 

\*Question discontinued in 2012.

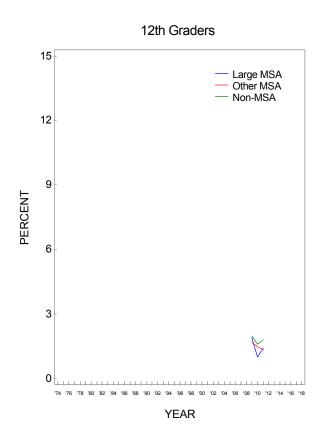
## FIGURE 153 Provigil:\* Trends in Annual Prevalence by Region



Source. The Monitoring the Future study, the University of Michigan.

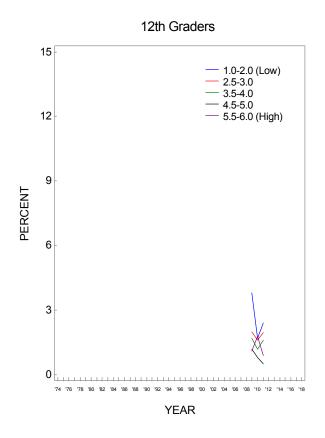
\*Question discontinued in 2012.

FIGURE 154
Provigil:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Question discontinued in 2012.

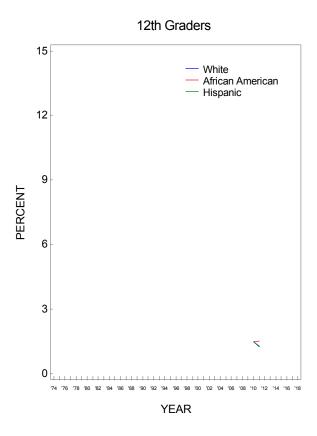
FIGURE 155
Provigil:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Question discontinued in 2012.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

## FIGURE 156 Provigil:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Question discontinued in 2012.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 157
Methamphetamine: Trends in Annual Prevalence by Gender

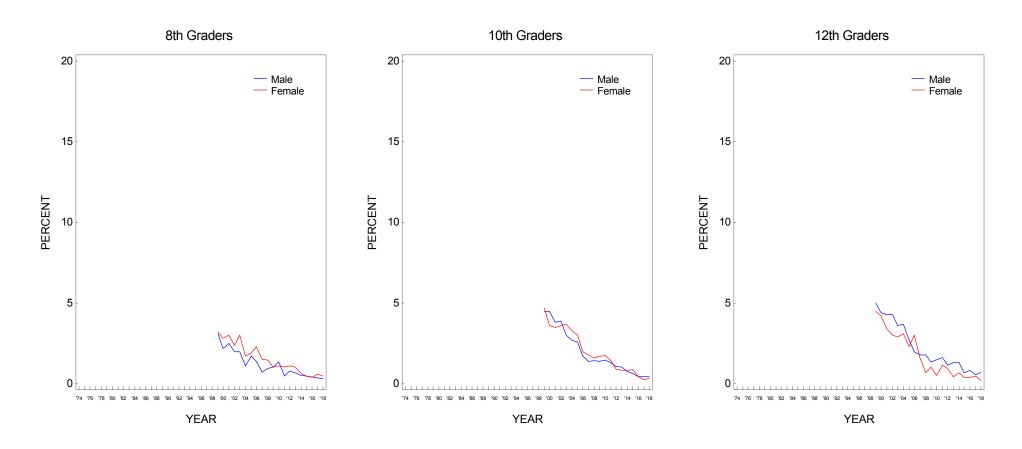


FIGURE 158
Methamphetamine: Trends in Annual Prevalence by College Plans

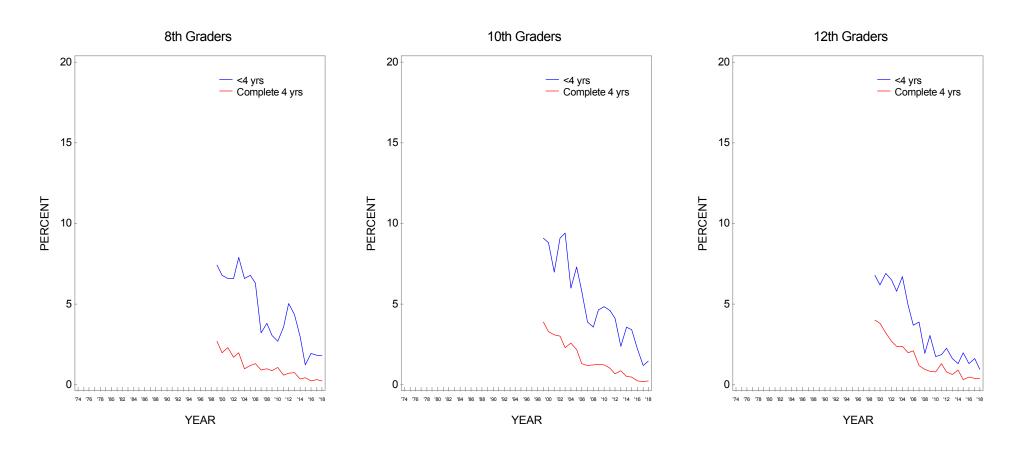


FIGURE 159
Methamphetamine: Trends in Annual Prevalence by Region

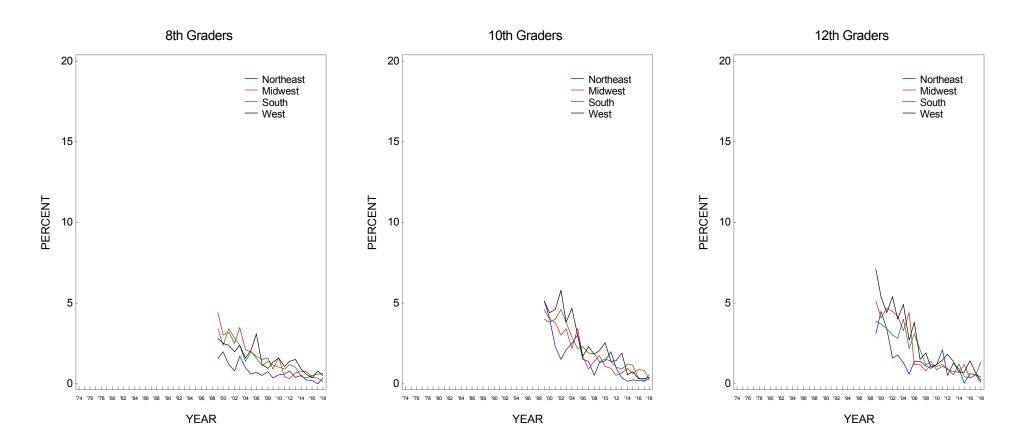


FIGURE 160
Methamphetamine: Trends in Annual Prevalence by Population Density

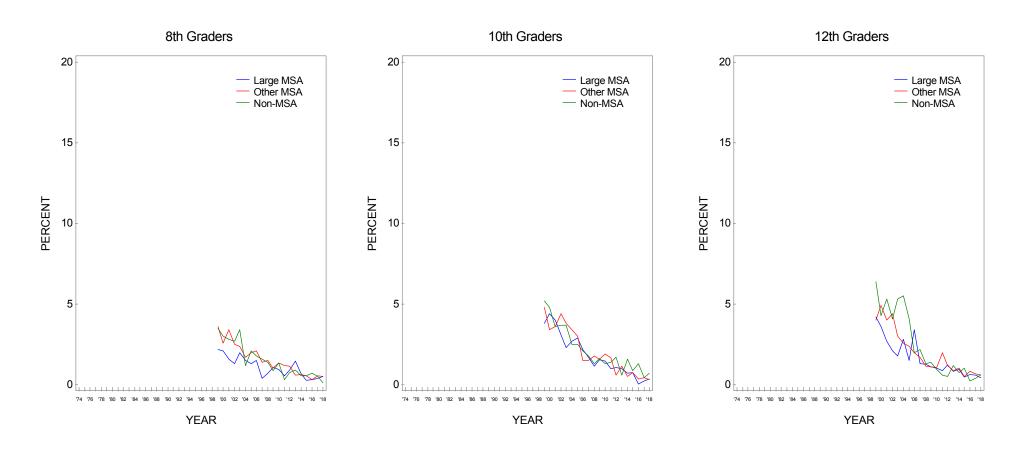
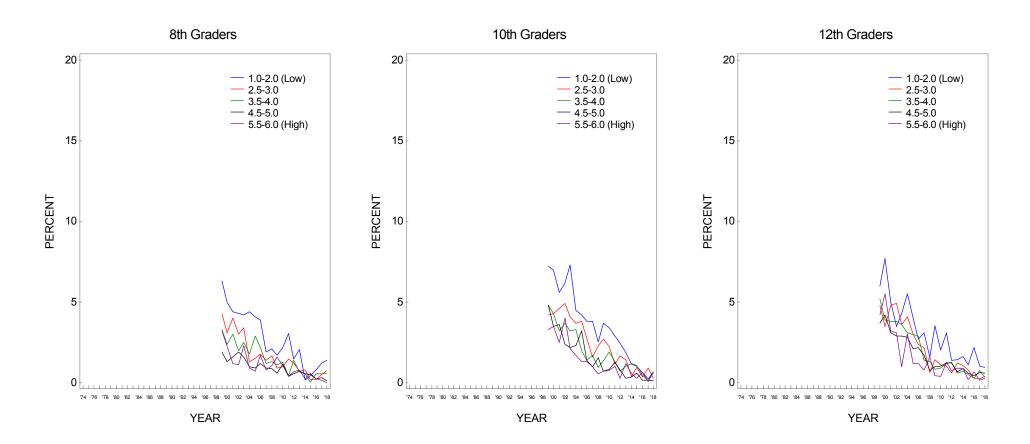
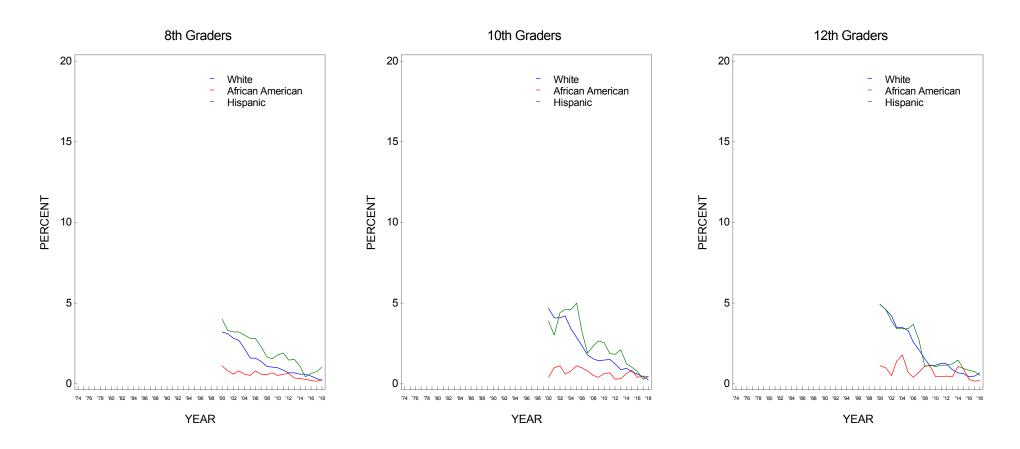


FIGURE 161
Methamphetamine: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 162
Methamphetamine: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 163 Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Gender

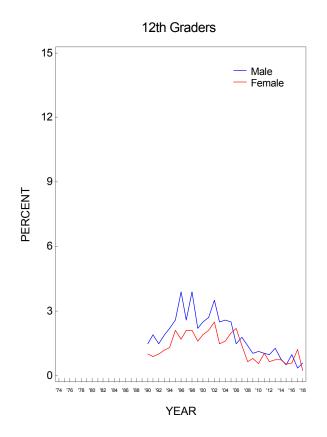


FIGURE 164 Crystal Methamphetamine (Ice): Trends in Annual Prevalence by College Plans

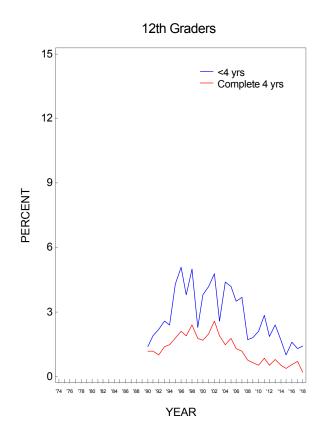


FIGURE 165 Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Region

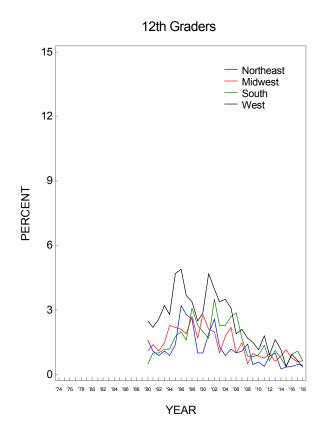


FIGURE 166 Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Population Density

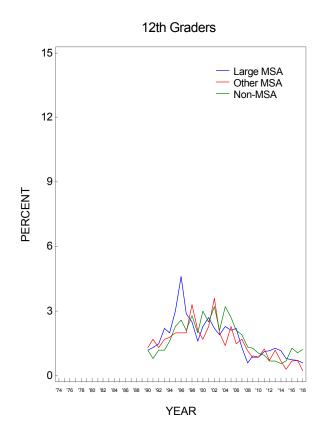
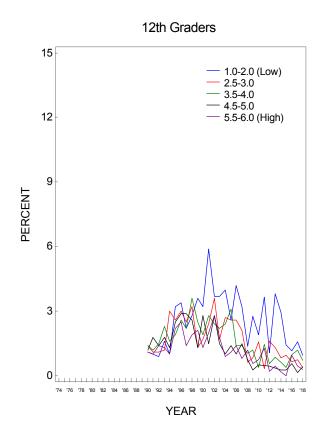
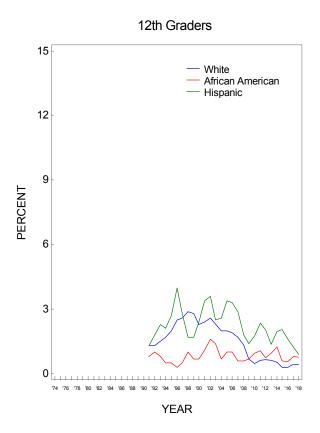


FIGURE 167
Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

# FIGURE 168 Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 169
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Gender

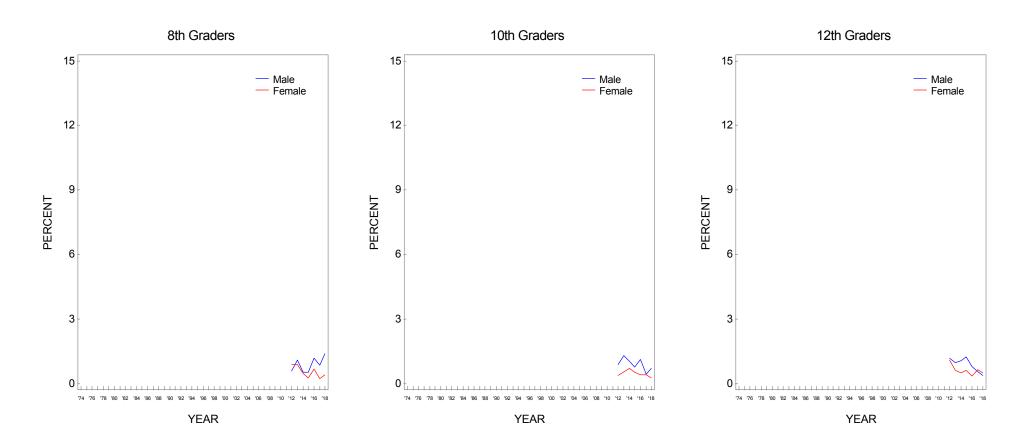


FIGURE 170
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by College Plans

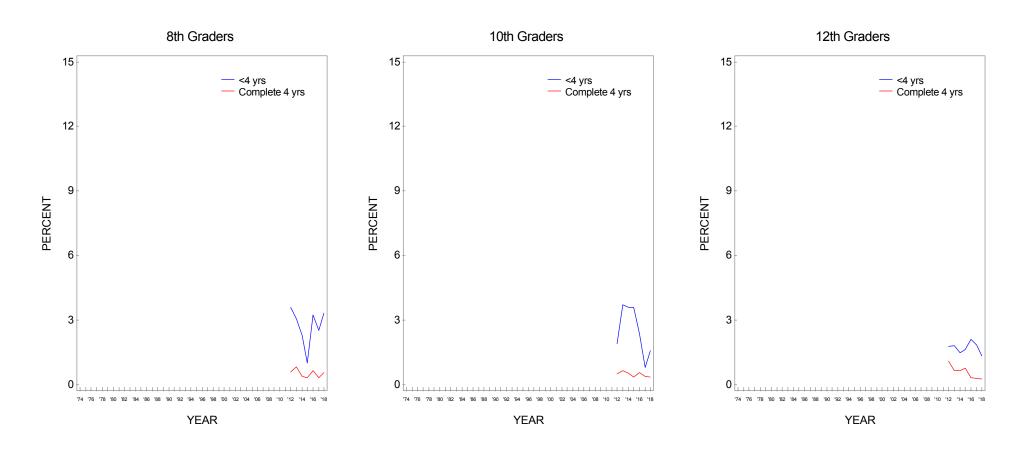


FIGURE 171
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Region

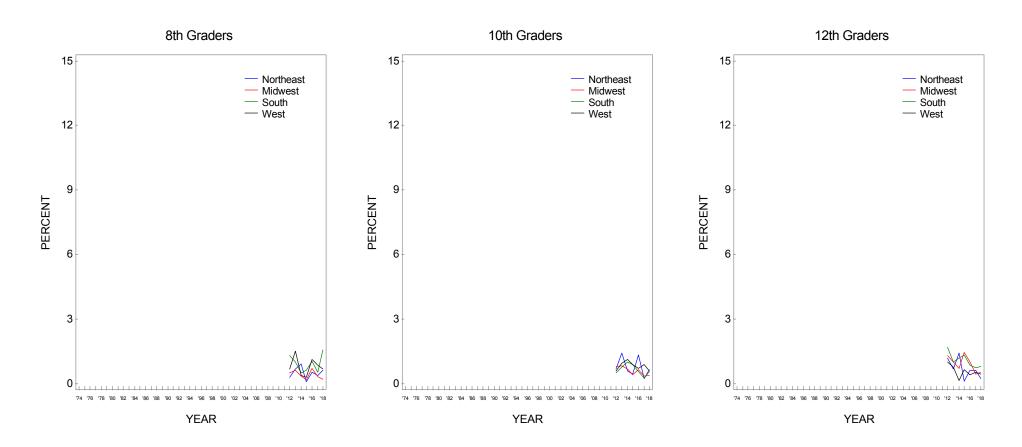


FIGURE 172
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Population Density

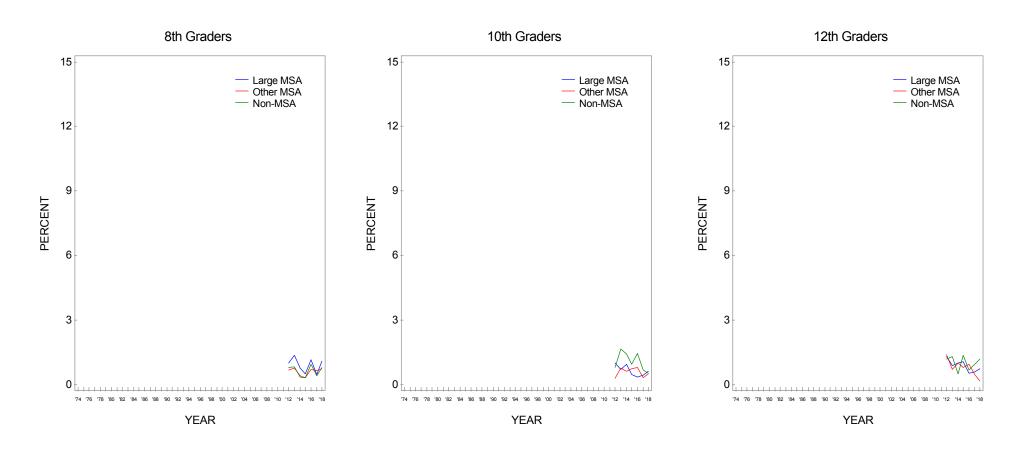
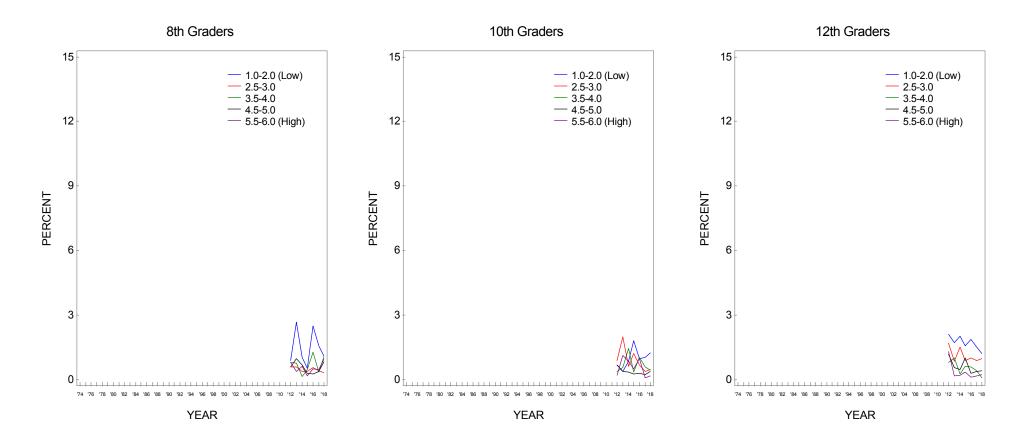
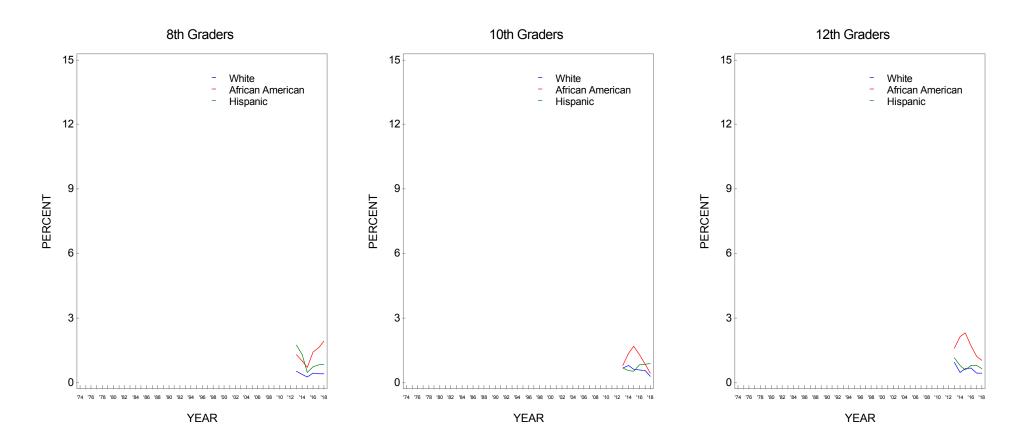


FIGURE 173
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 174
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 175 Sedatives (Barbiturates): Trends in Annual Prevalence by Gender

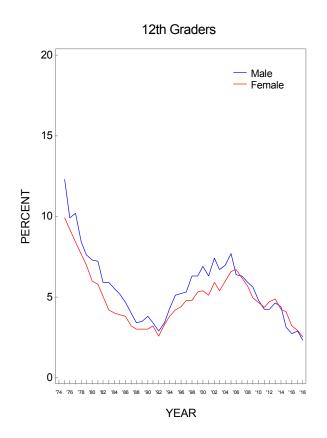


FIGURE 176 Sedatives (Barbiturates): Trends in Annual Prevalence by College Plans

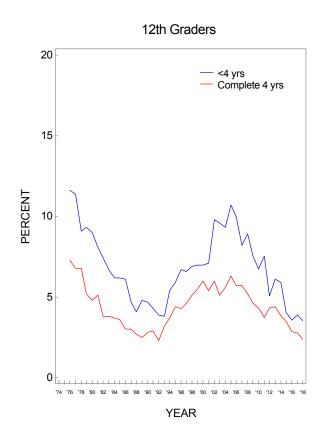


FIGURE 177
Sedatives (Barbiturates): Trends in Annual Prevalence by Region

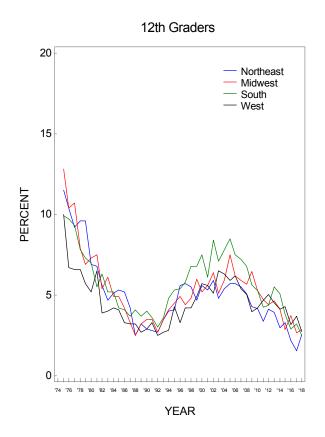


FIGURE 178
Sedatives (Barbiturates): Trends in Annual Prevalence by Population Density

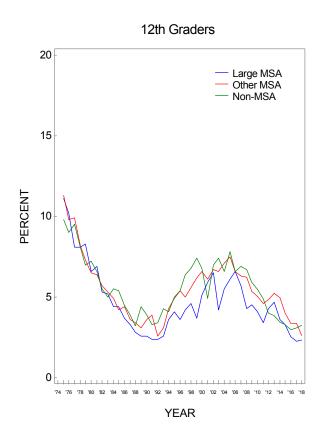
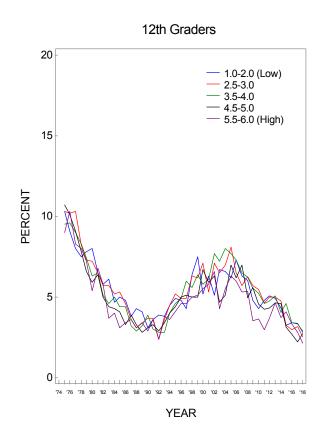
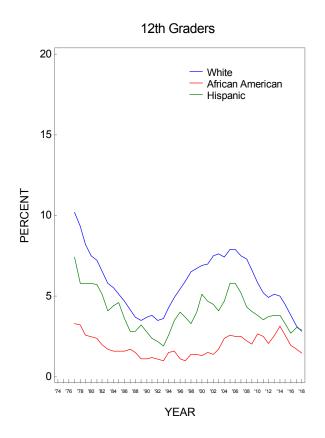


FIGURE 179
Sedatives (Barbiturates): Trends in Annual Prevalence by Average Education Level of Parents\*



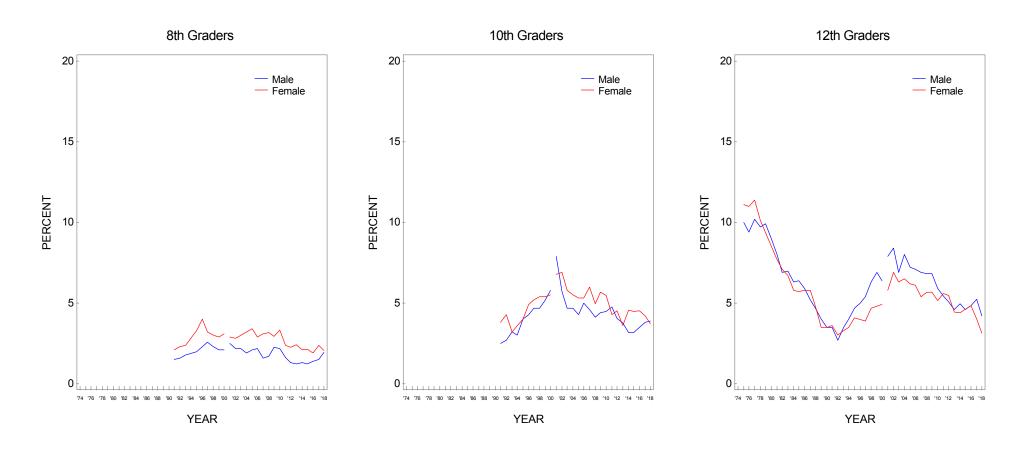
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

# FIGURE 180 Sedatives (Barbiturates): Trends in Annual Prevalence by Race/Ethnicity\*



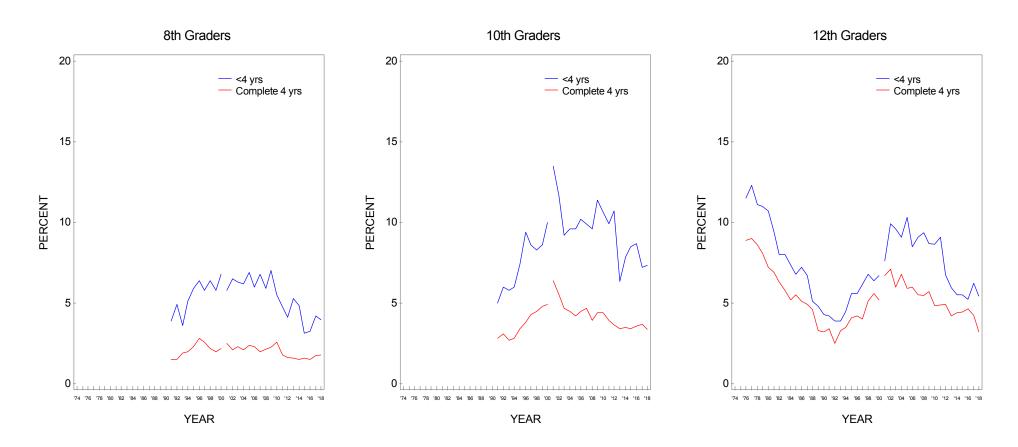
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 181
Tranquilizers:\* Trends in Annual Prevalence by Gender



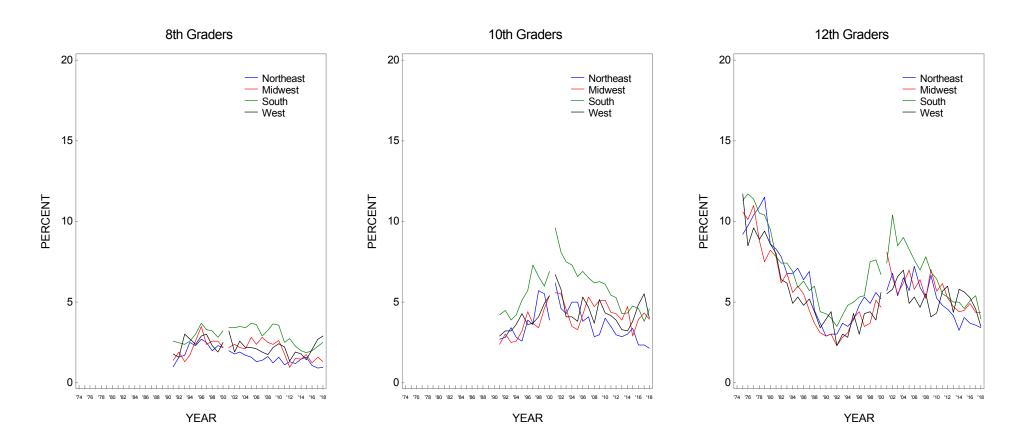
<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

FIGURE 182
Tranquilizers:\* Trends in Annual Prevalence by College Plans



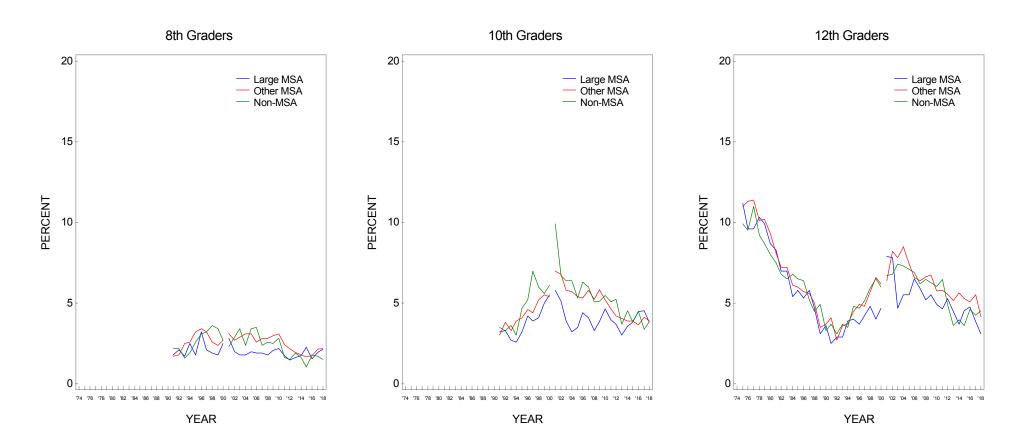
<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

FIGURE 183
Tranquilizers:\* Trends in Annual Prevalence by Region



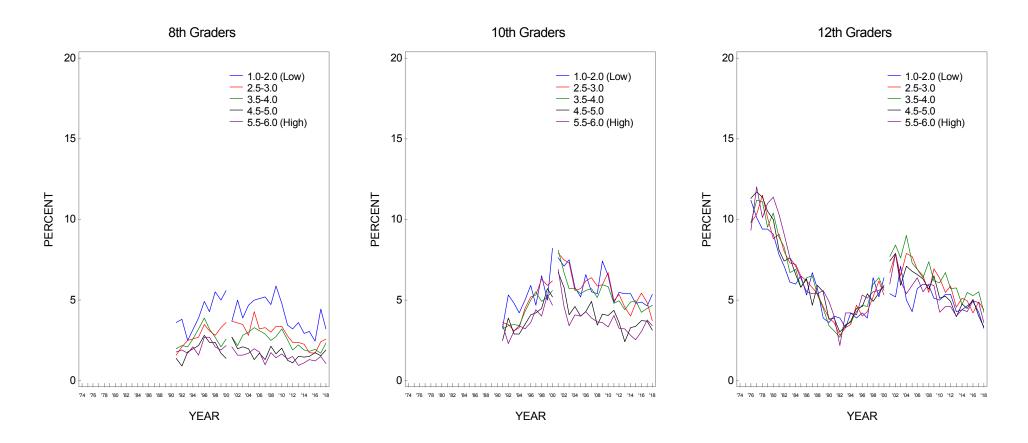
<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

FIGURE 184
Tranquilizers:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

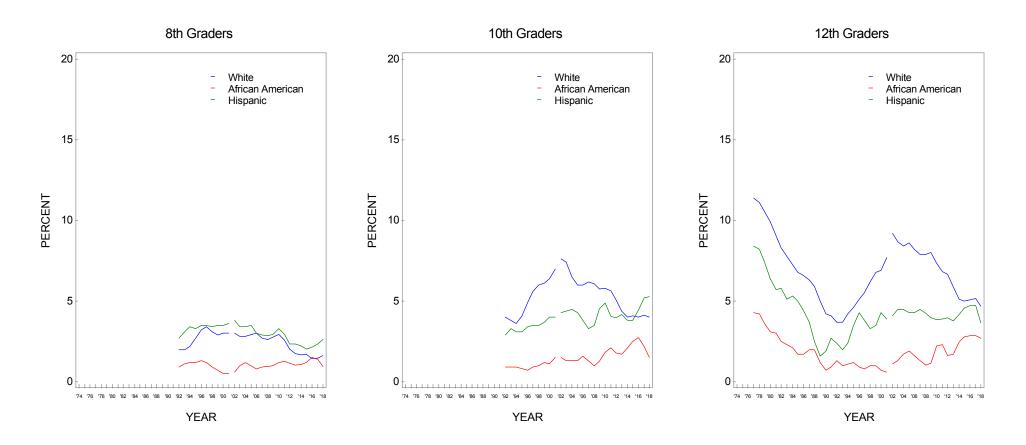
FIGURE 185
Tranquilizers:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

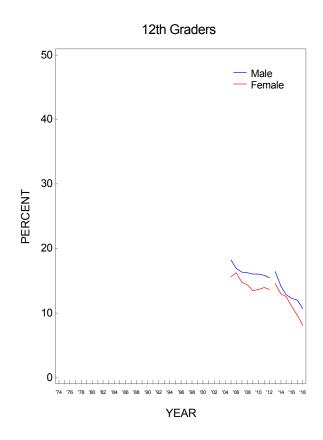
FIGURE 186
Tranquilizers:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Miltown was replaced with Xanax.

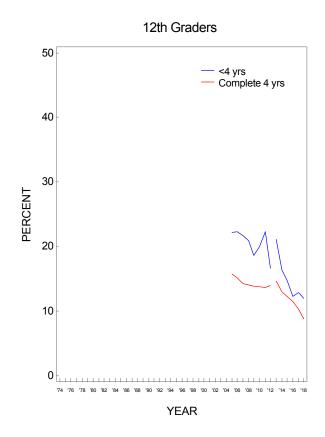
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

# FIGURE 187 Any Prescription Drug:\* Trends in Annual Prevalence by Gender



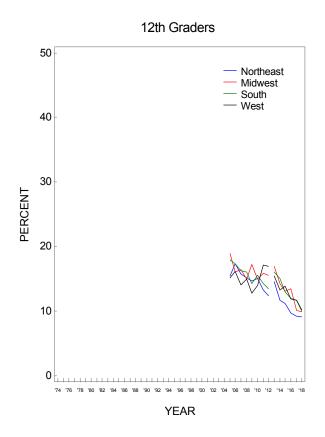
Source. The Monitoring the Future study, the University of Michigan.

# FIGURE 188 Any Prescription Drug:\* Trends in Annual Prevalence by College Plans



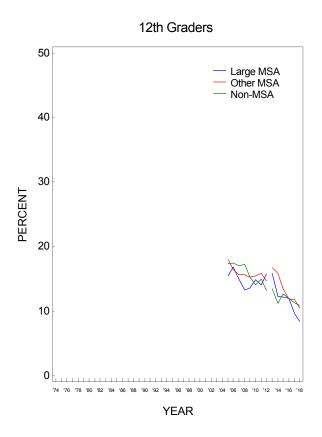
Source. The Monitoring the Future study, the University of Michigan.

# FIGURE 189 Any Prescription Drug:\* Trends in Annual Prevalence by Region



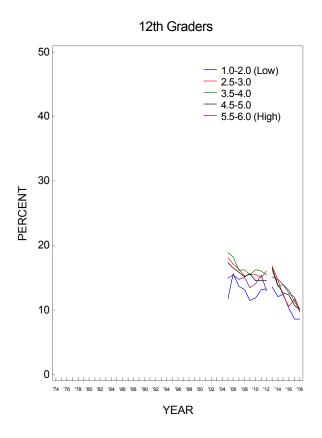
Source. The Monitoring the Future study, the University of Michigan.

# FIGURE 190 Any Prescription Drug:\* Trends in Annual Prevalence by Population Density



Source. The Monitoring the Future study, the University of Michigan.

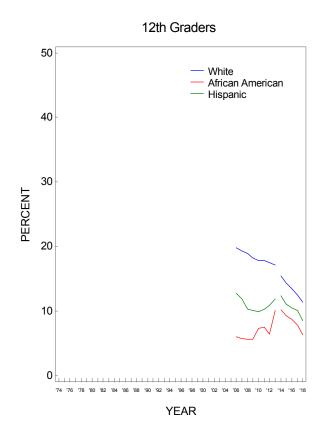
FIGURE 191
Any Prescription Drug:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>The use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers without a doctor telling you to use them. Beginning in 2013, a revised set of questions on amphetamine use was introduced

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

# FIGURE 192 Any Prescription Drug:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>The use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers without a doctor telling you to use them. Beginning in 2013, a revised set of questions on amphetamine use was introduced

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 193
Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by Gender

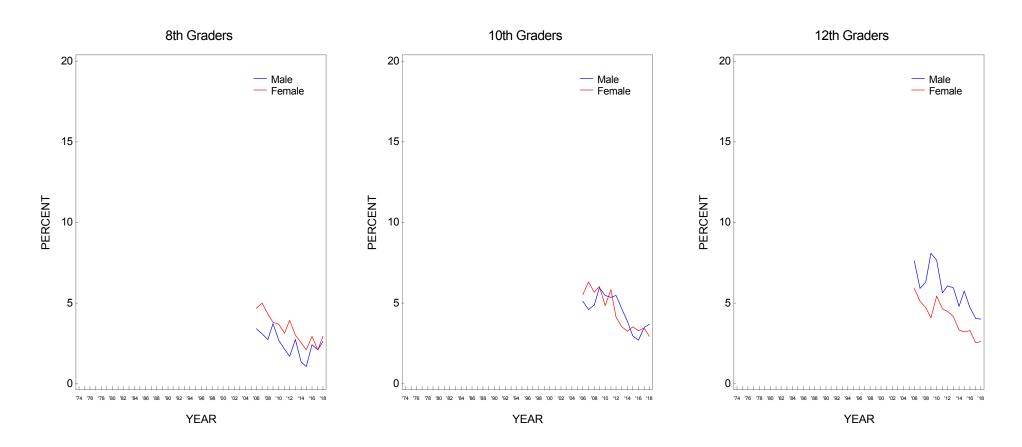


FIGURE 194 Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by College Plans

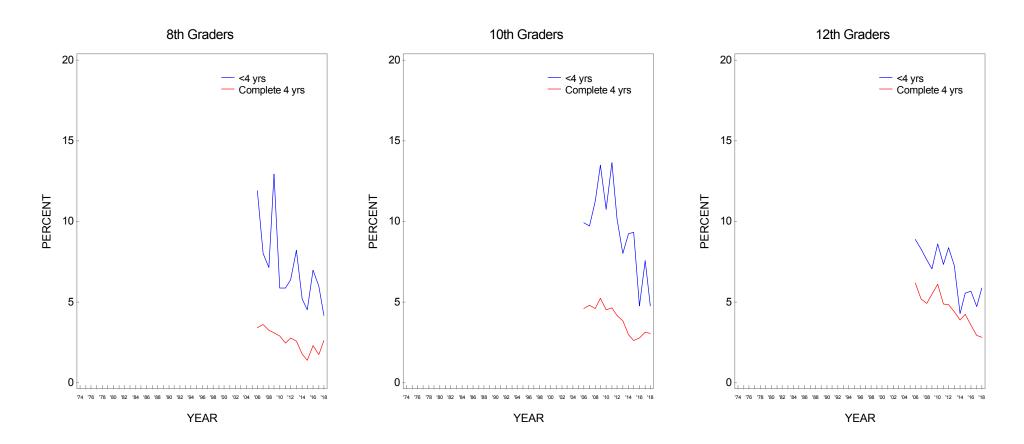


FIGURE 195 Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by Region

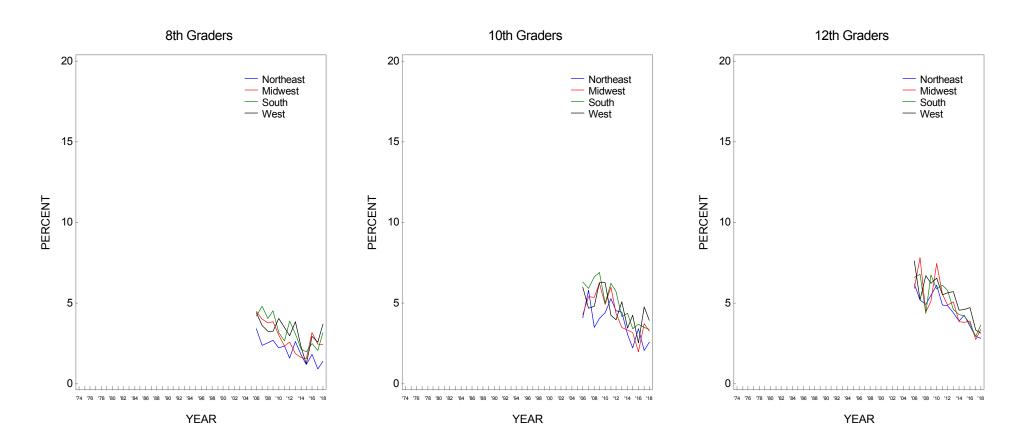


FIGURE 196
Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by Population Density

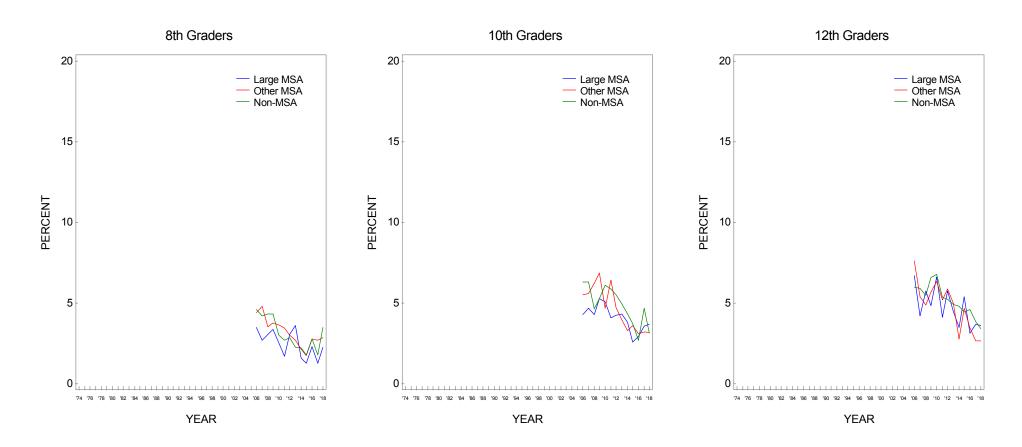
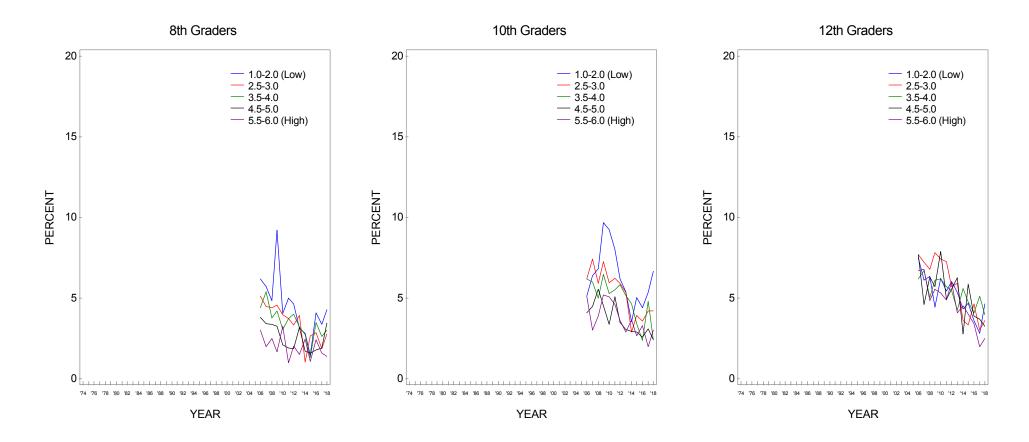


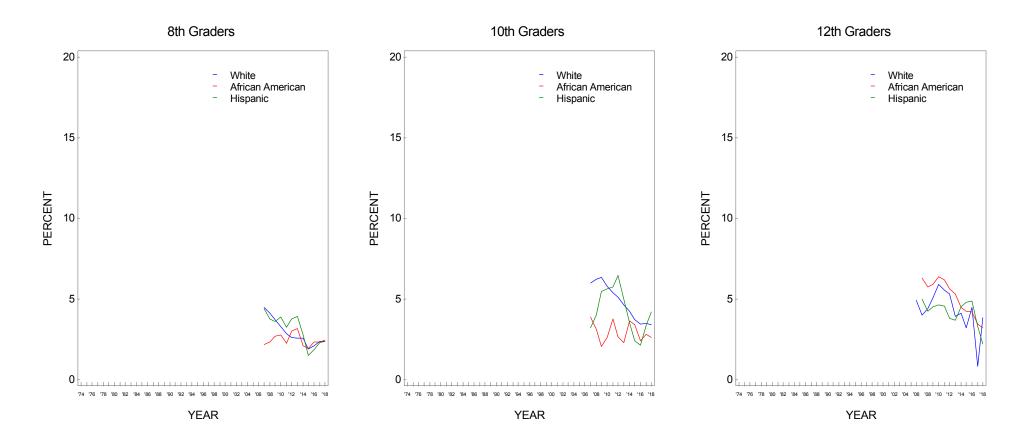
FIGURE 197
Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Taken to get high.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

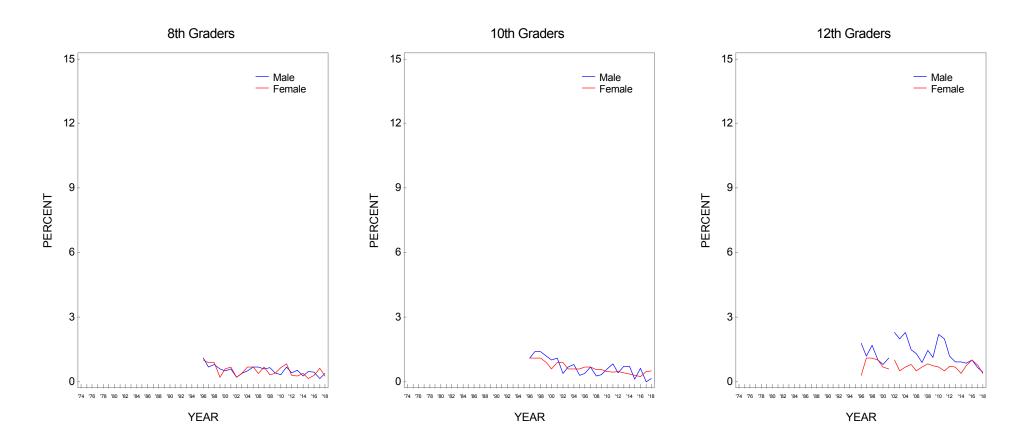
FIGURE 198
Over-the-Counter Cough/Cold Medicines:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Taken to get high.

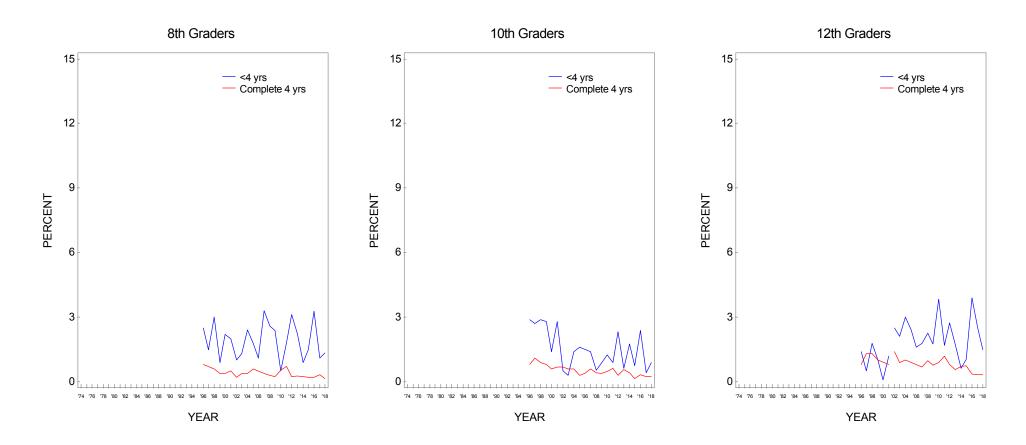
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 199
Rohypnol:\* Trends in Annual Prevalence by Gender



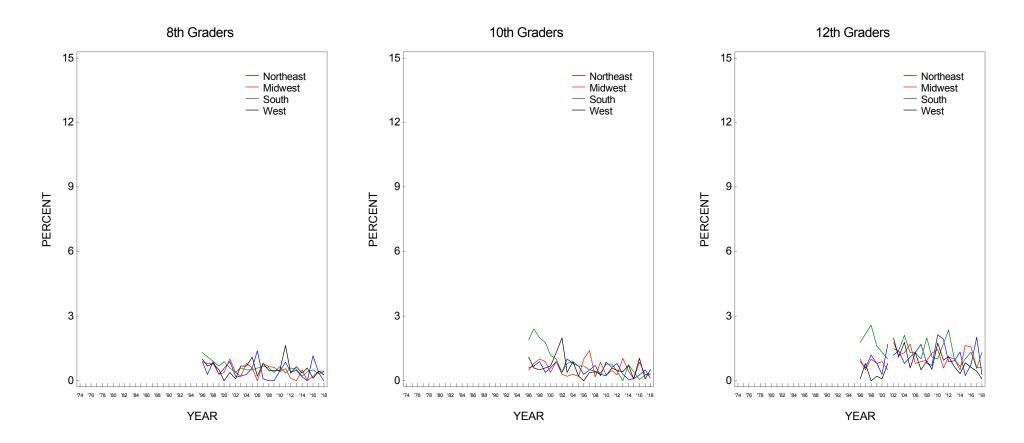
<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

FIGURE 200
Rohypnol:\* Trends in Annual Prevalence by College Plans



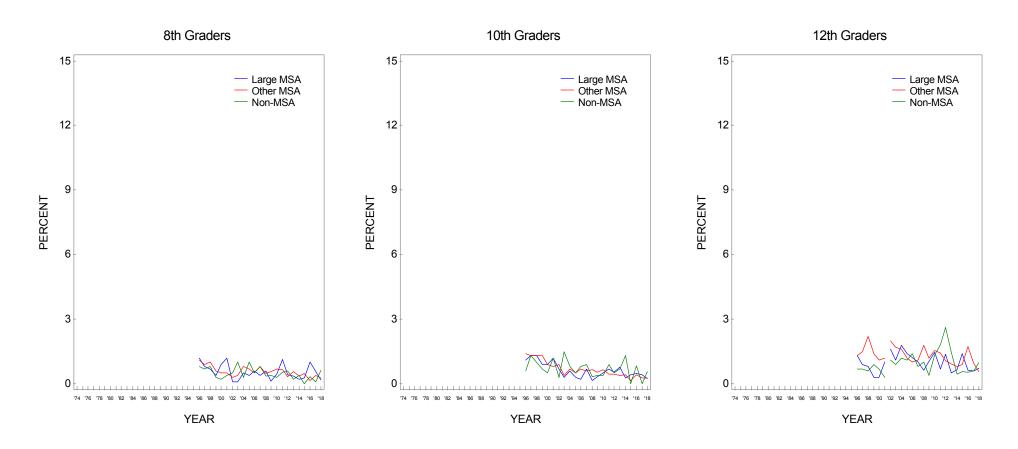
<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

FIGURE 201
Rohypnol:\* Trends in Annual Prevalence by Region



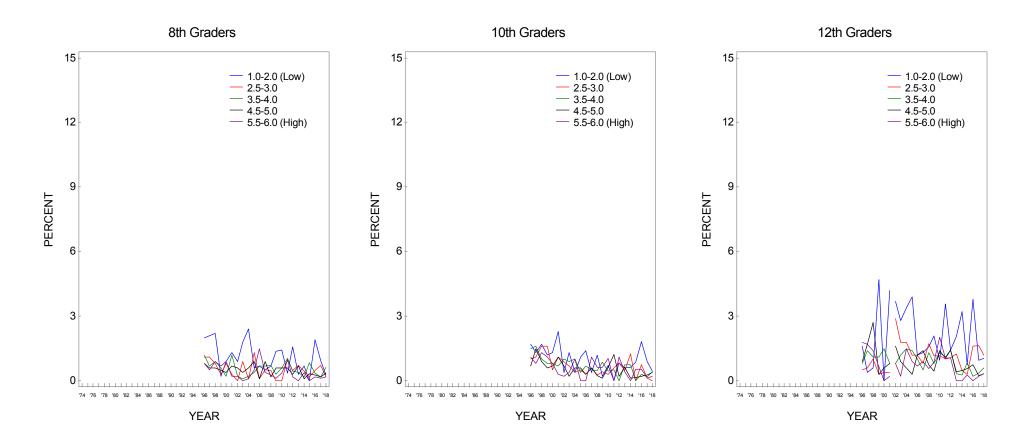
<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

FIGURE 202
Rohypnol:\* Trends in Annual Prevalence by Population Density



<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

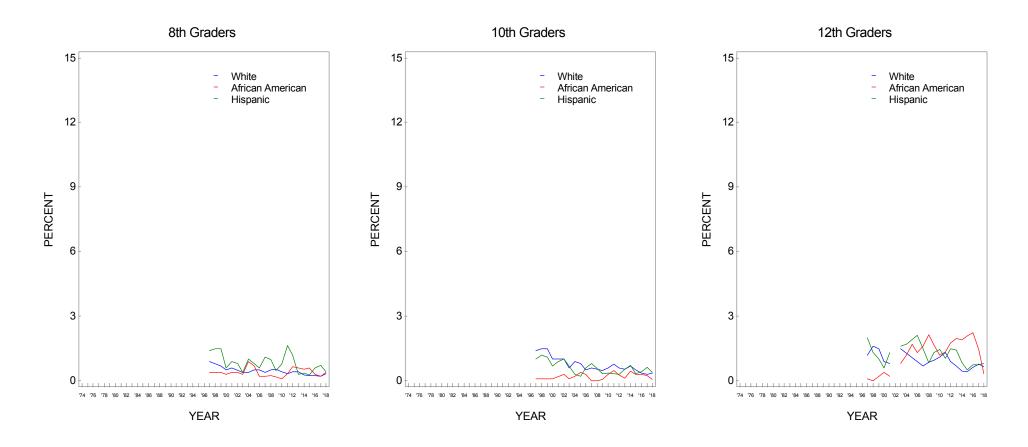
FIGURE 203
Rohypnol:\* Trends in Annual Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

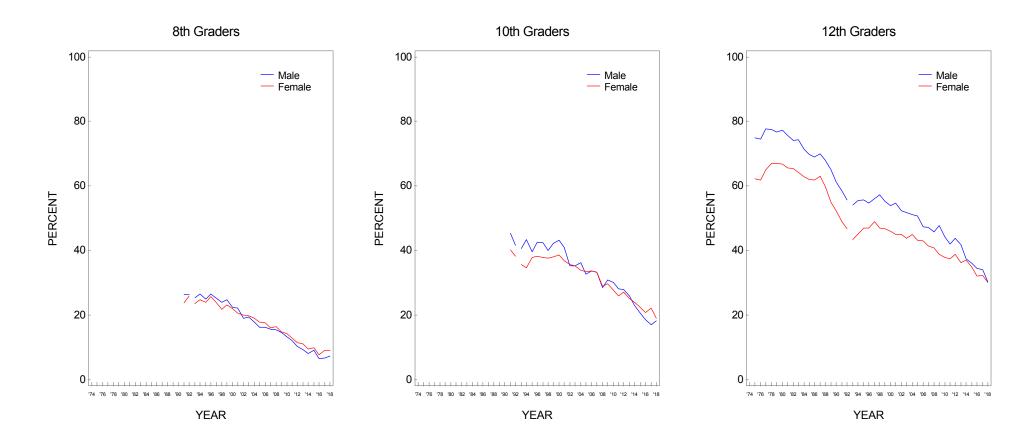
FIGURE 204
Rohypnol:\* Trends in Annual Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>For 12th grade only, the 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

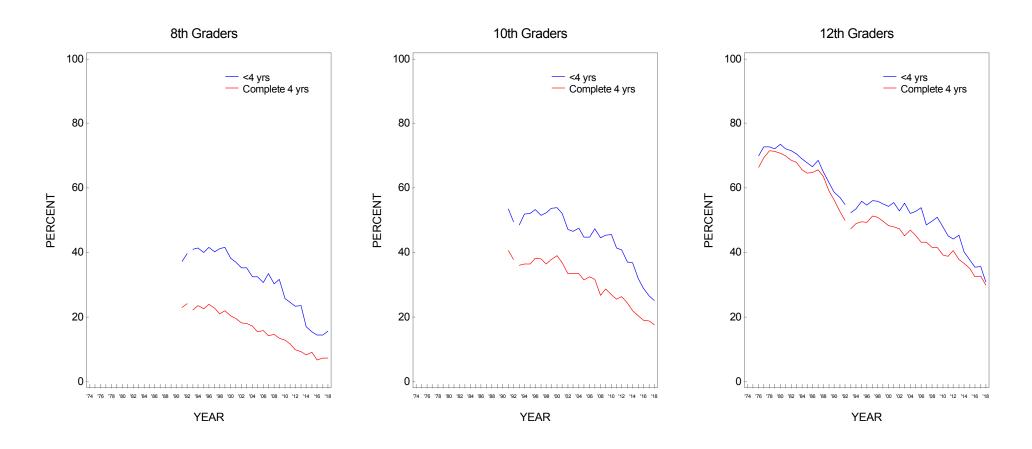
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 205
Alcohol:\* Trends in 30-Day Prevalence by Gender



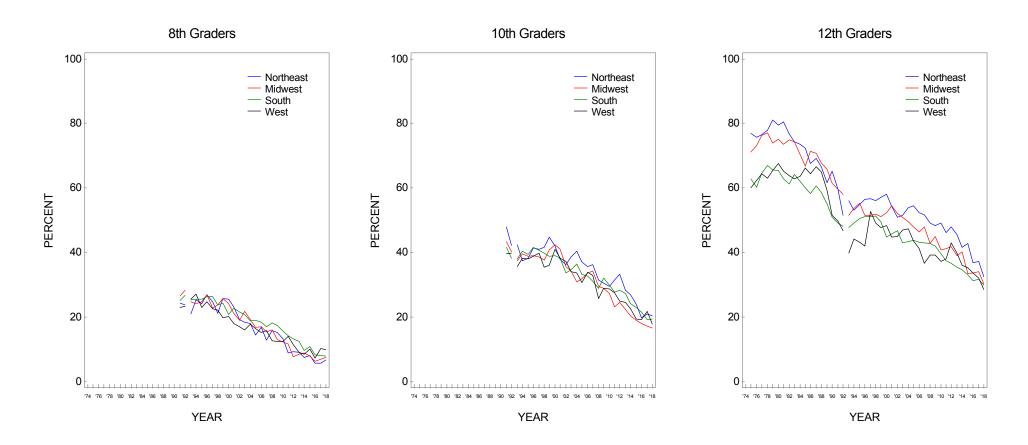
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 206
Alcohol:\* Trends in 30-Day Prevalence by College Plans



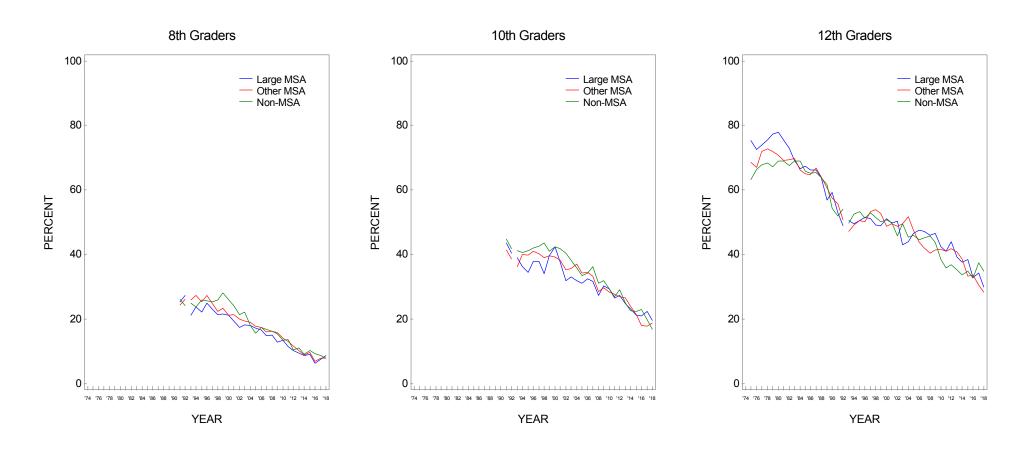
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 207
Alcohol:\* Trends in 30-Day Prevalence by Region



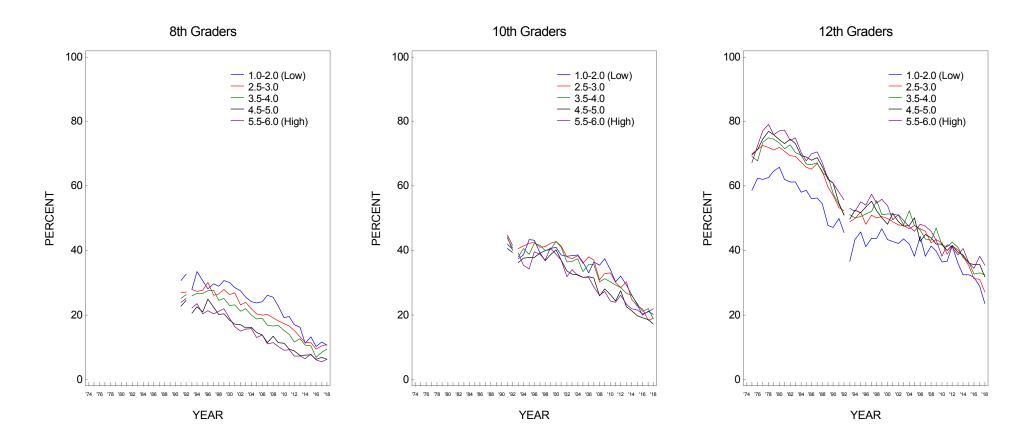
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 208
Alcohol:\* Trends in 30-Day Prevalence by Population Density



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

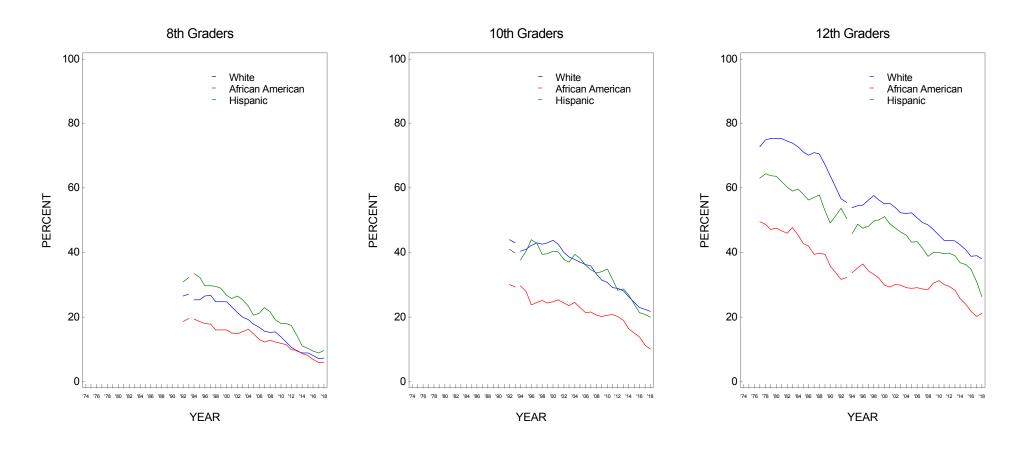
FIGURE 209
Alcohol:\* Trends in 30-Day Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

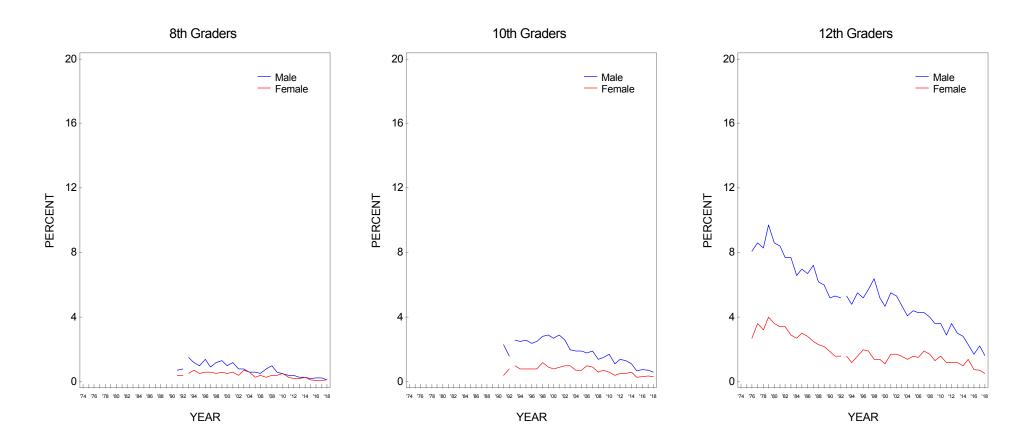
FIGURE 210
Alcohol:\* Trends in 30-Day Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

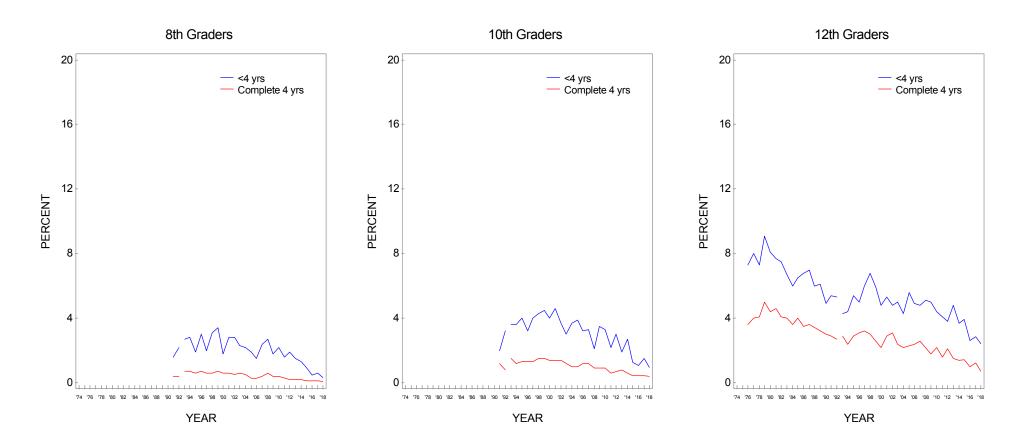
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 211
Alcohol:\* Trends in Daily Prevalence by Gender



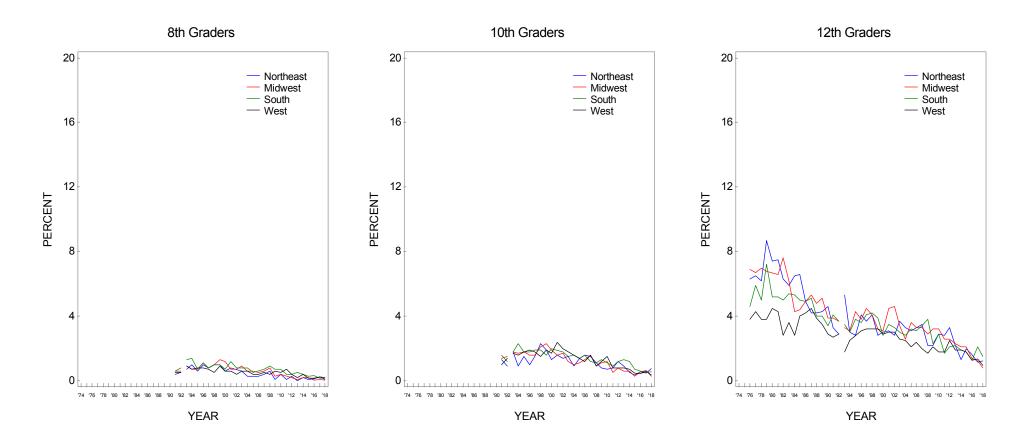
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 212
Alcohol:\* Trends in Daily Prevalence by College Plans



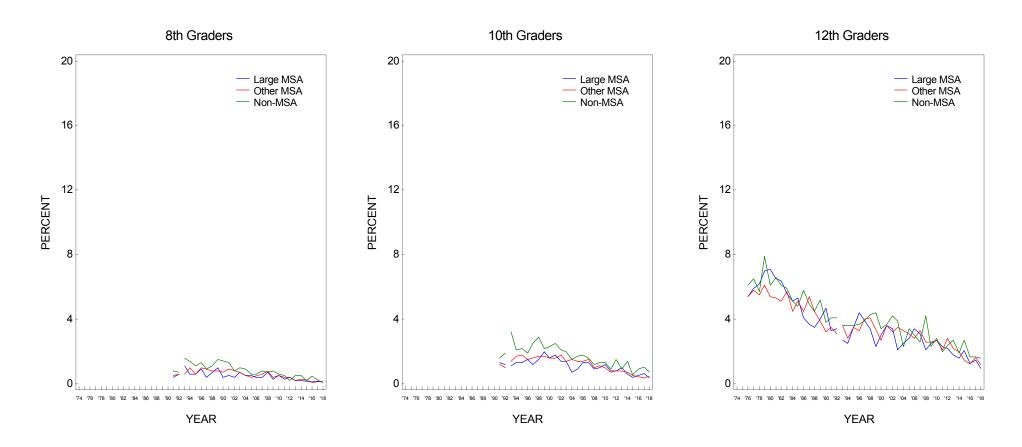
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 213
Alcohol:\* Trends in Daily Prevalence by Region



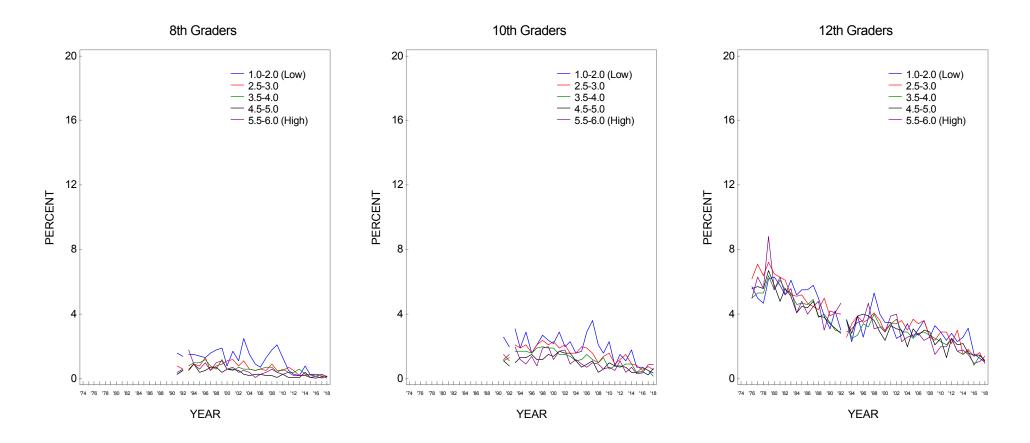
<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

FIGURE 214
Alcohol:\* Trends in Daily Prevalence by Population Density



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

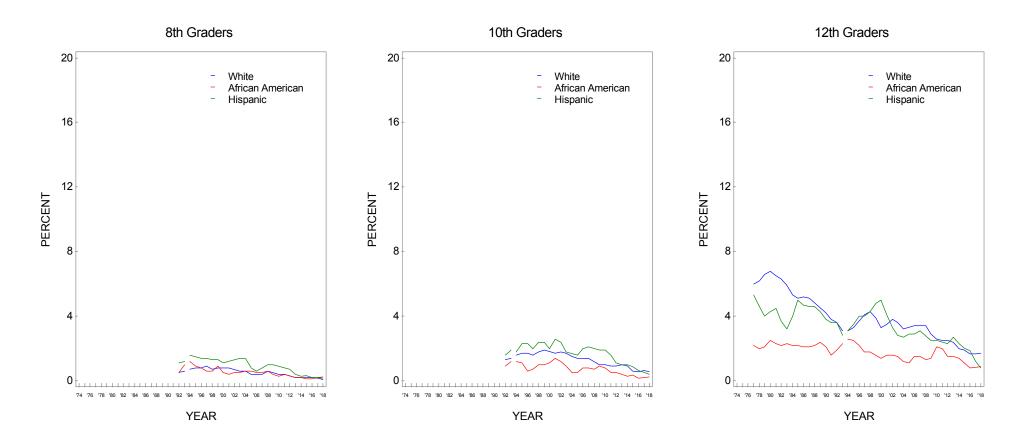
FIGURE 215
Alcohol:\* Trends in Daily Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 216
Alcohol:\* Trends in Daily Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Beginning in 1993, a revised set of questions on alcohol use was introduced that indicated that a drink meant more than a few sips.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 217 Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Gender

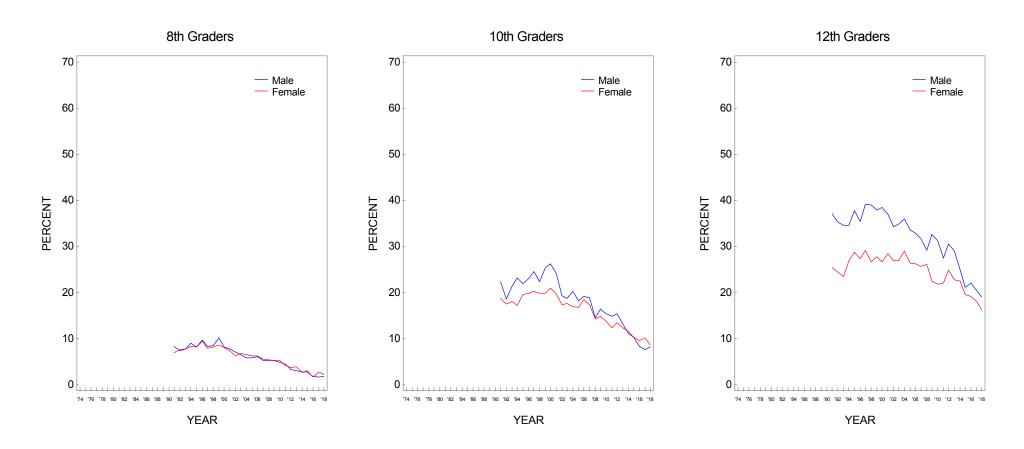


FIGURE 218
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by College Plans

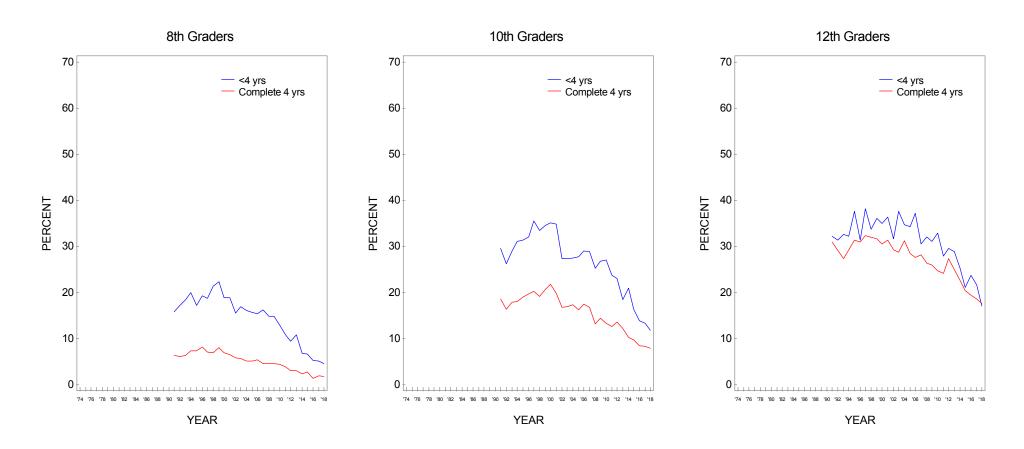


FIGURE 219
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Region

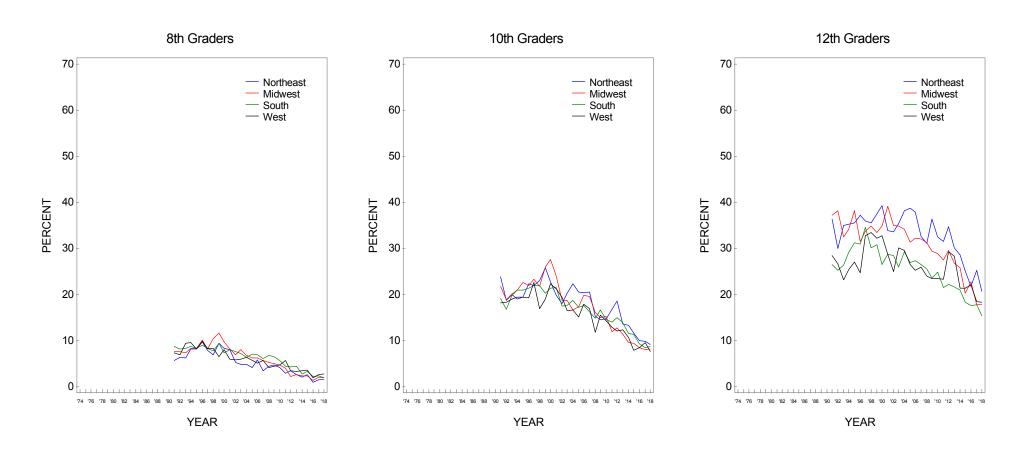


FIGURE 220
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Population Density

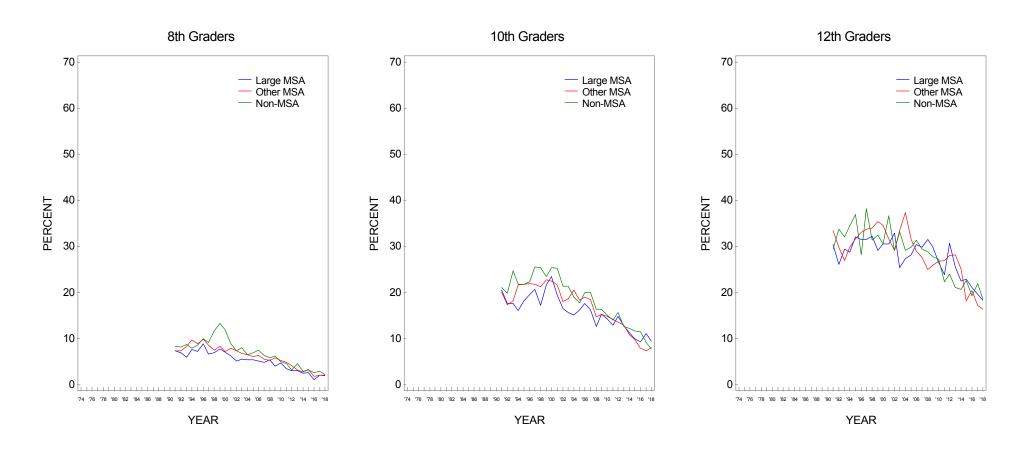
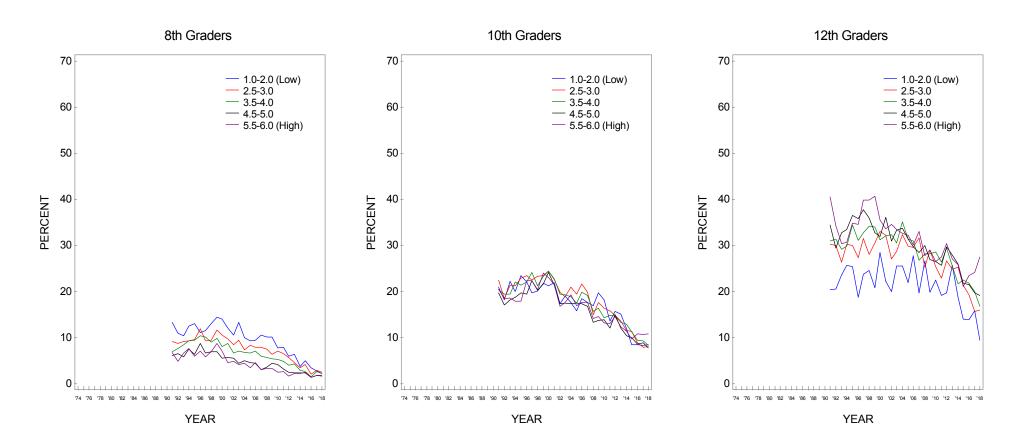
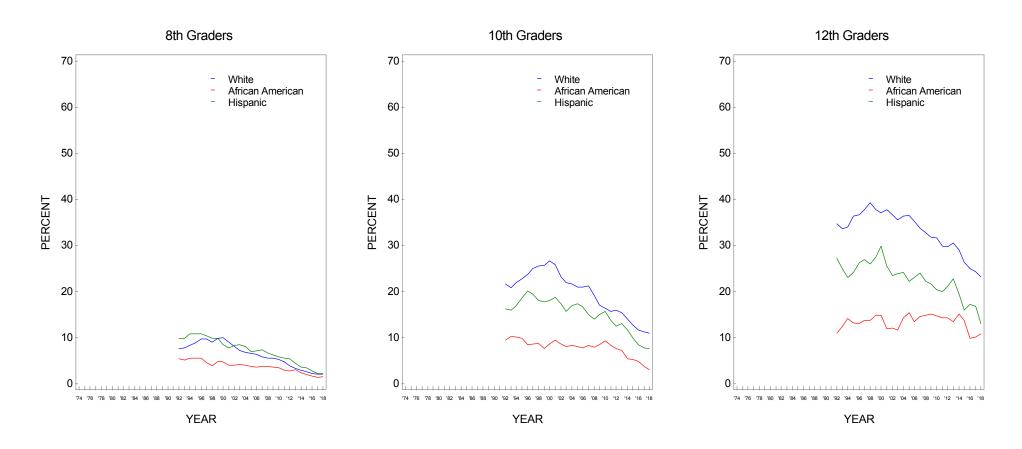


FIGURE 221
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 222
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 223
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender

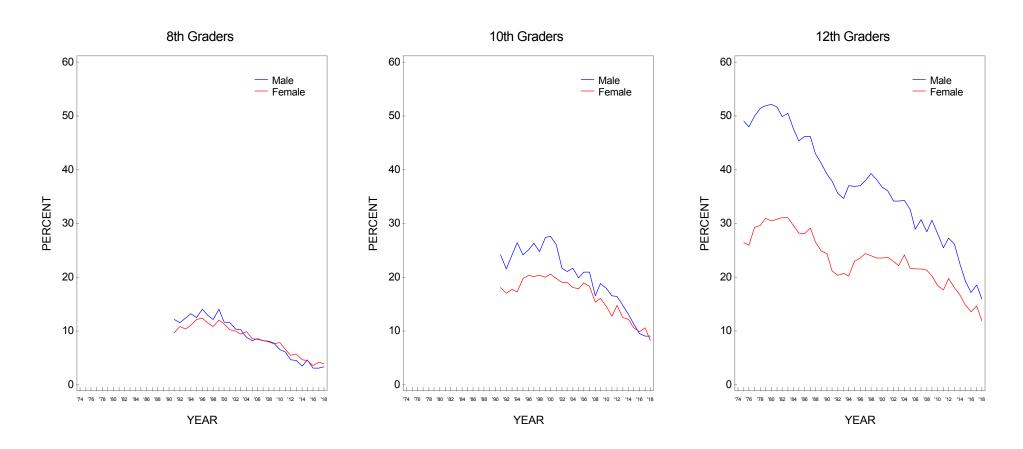


FIGURE 224
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans

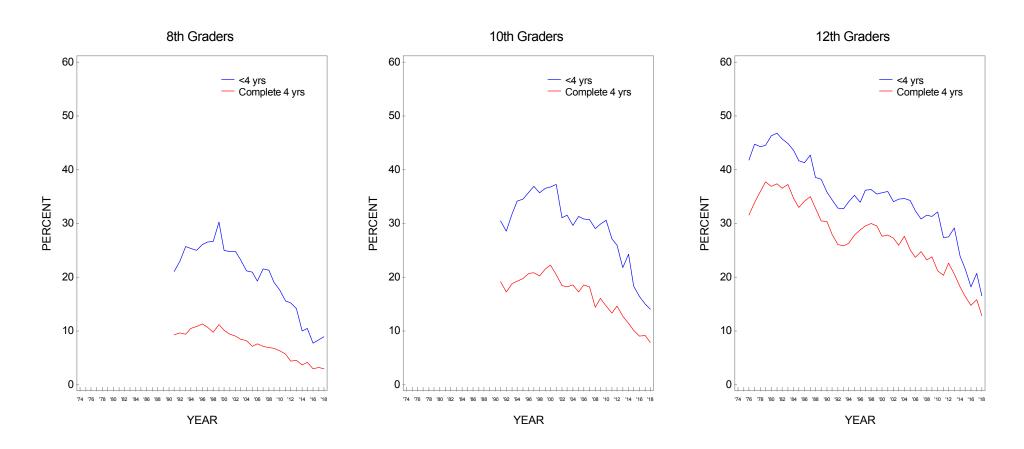


FIGURE 225
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region

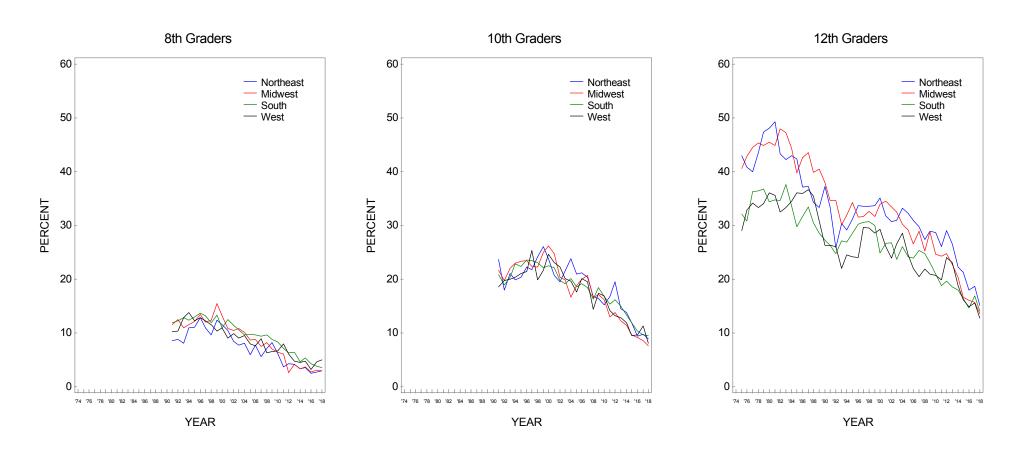


FIGURE 226
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density

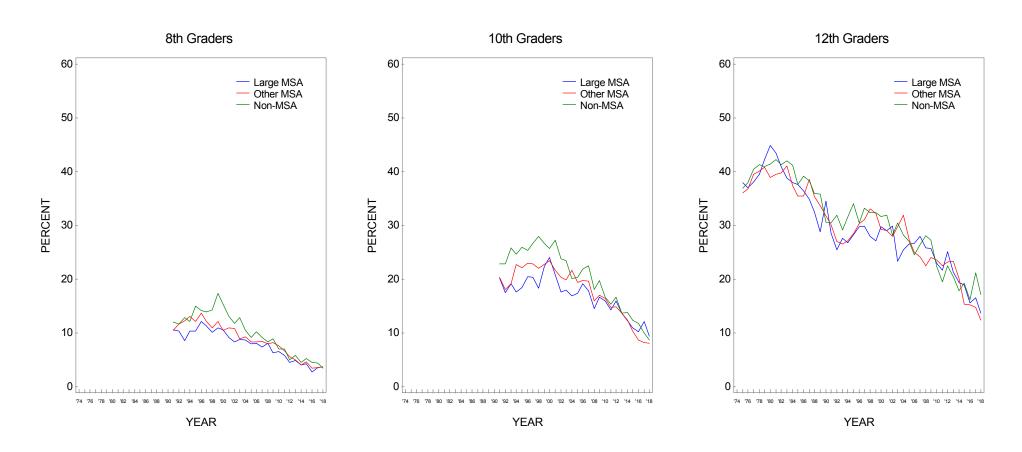
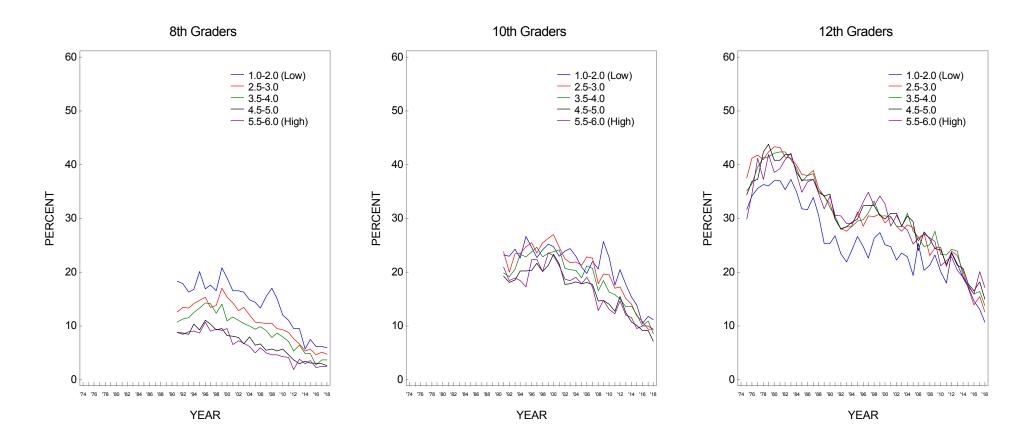
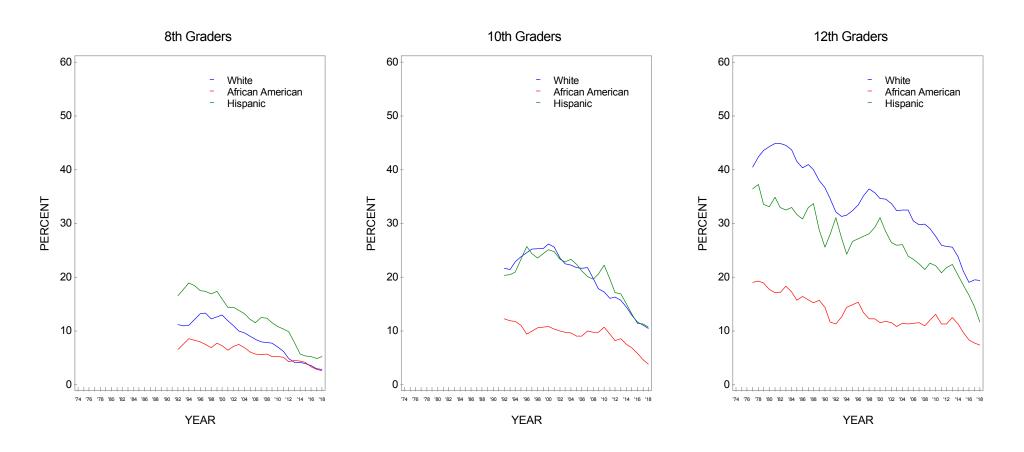


FIGURE 227
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 228
Binge Drinking: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 229
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by Gender

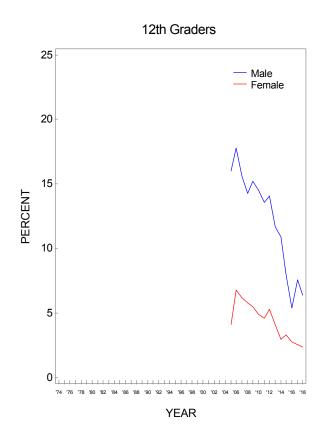


FIGURE 230
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by College Plans

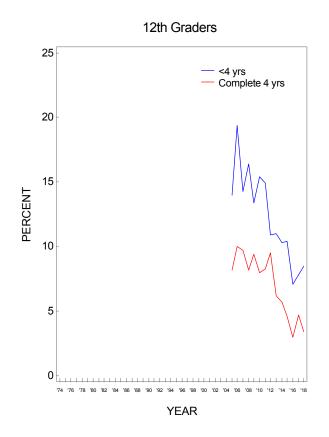


FIGURE 231
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by Region

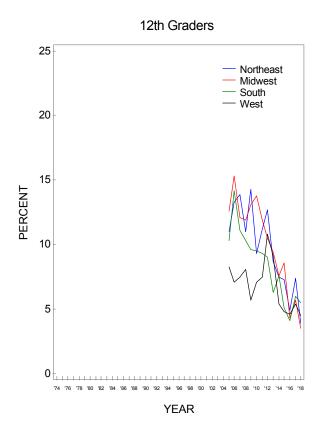


FIGURE 232
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by Population Density

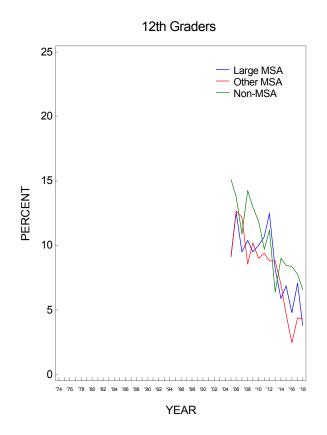
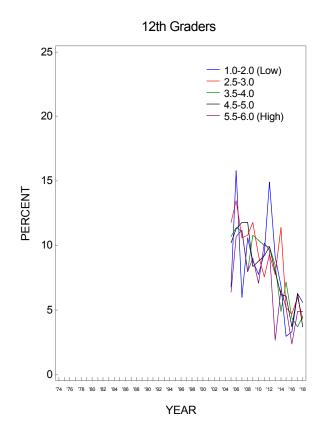
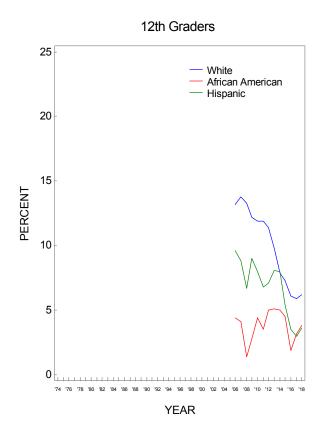


FIGURE 233
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 234
Binge Drinking: Trends in 2-Week Prevalence of 10 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 235
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by Gender

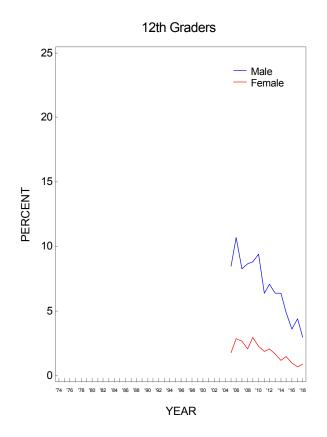


FIGURE 236
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by College Plans

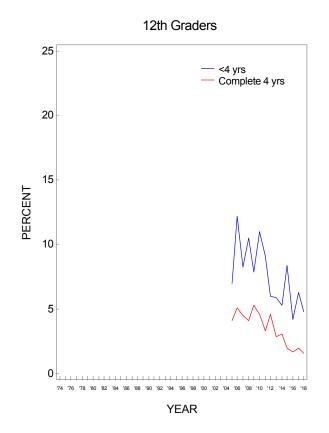


FIGURE 237
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by Region

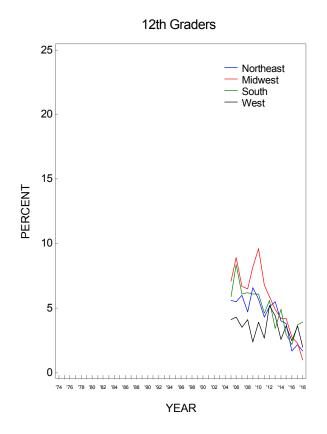


FIGURE 238
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by Population Density

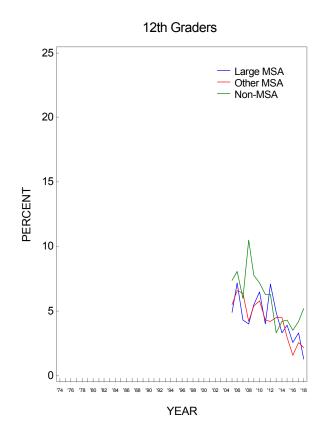
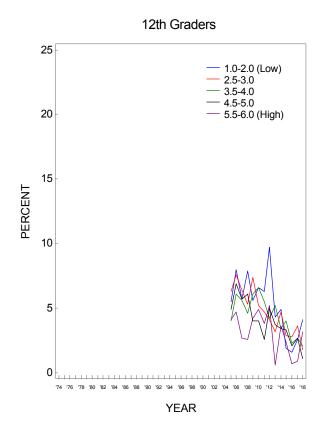
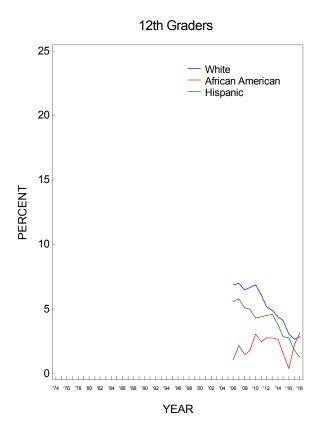


FIGURE 239
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 240
Binge Drinking: Trends in 2-Week Prevalence of 15 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 241
Beer: Trends in 30-Day Prevalence by Gender

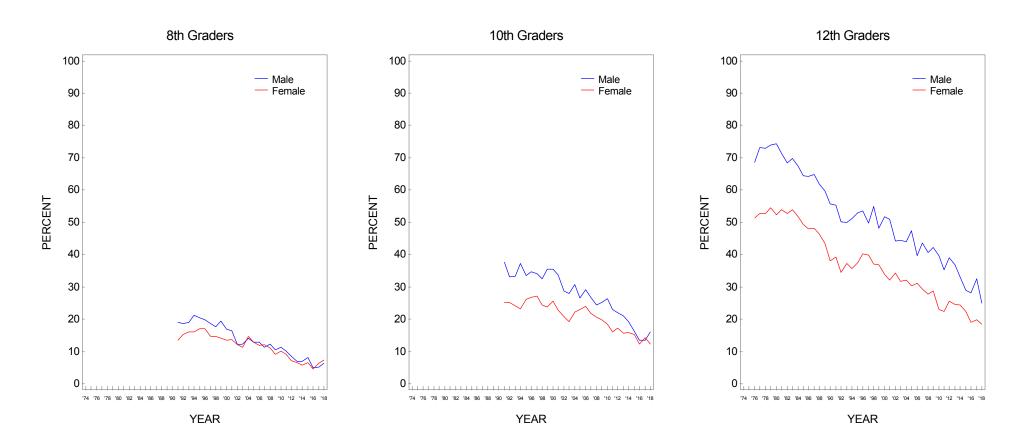


FIGURE 242
Beer: Trends in 30-Day Prevalence by College Plans

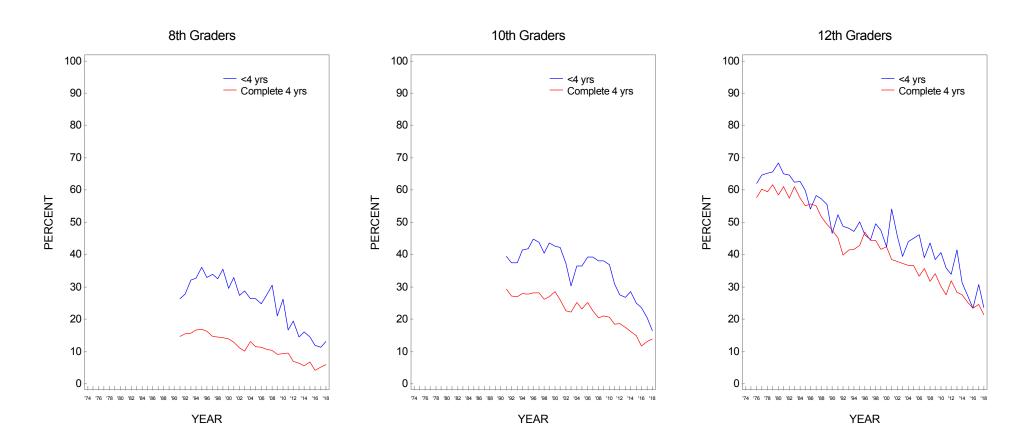


FIGURE 243
Beer: Trends in 30-Day Prevalence by Region

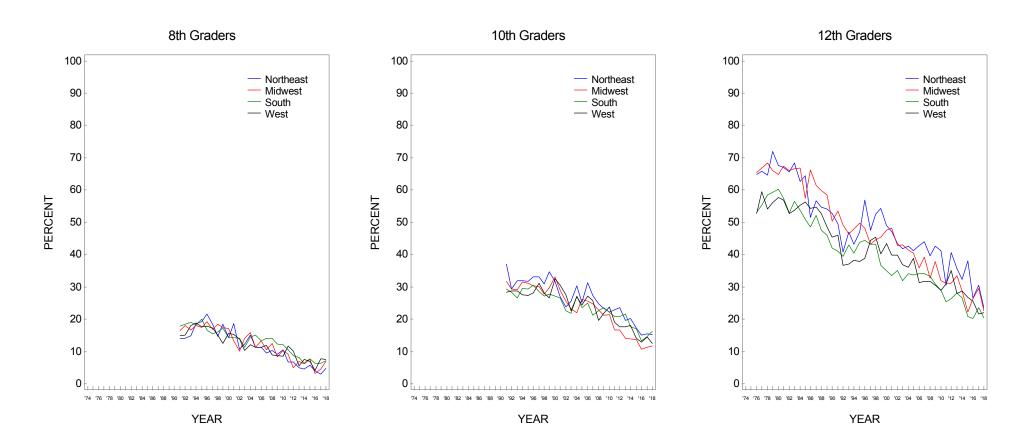


FIGURE 244
Beer: Trends in 30-Day Prevalence by Population Density

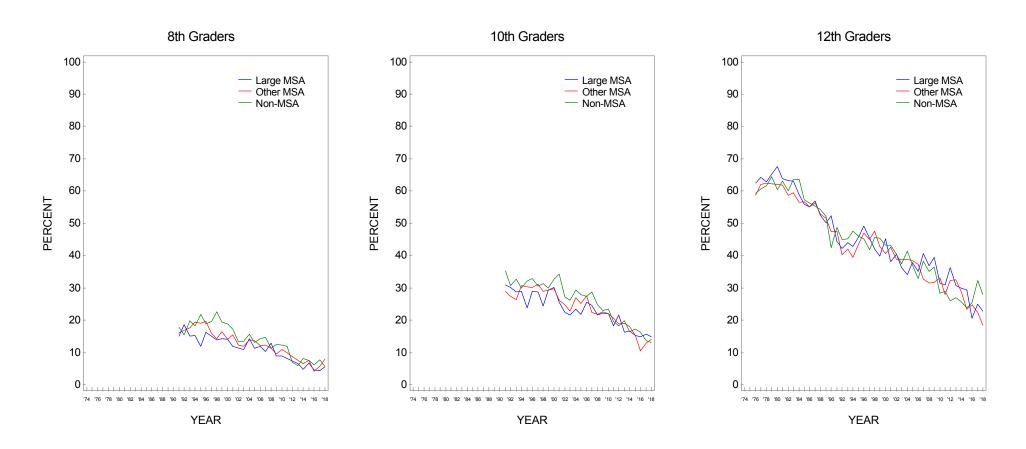
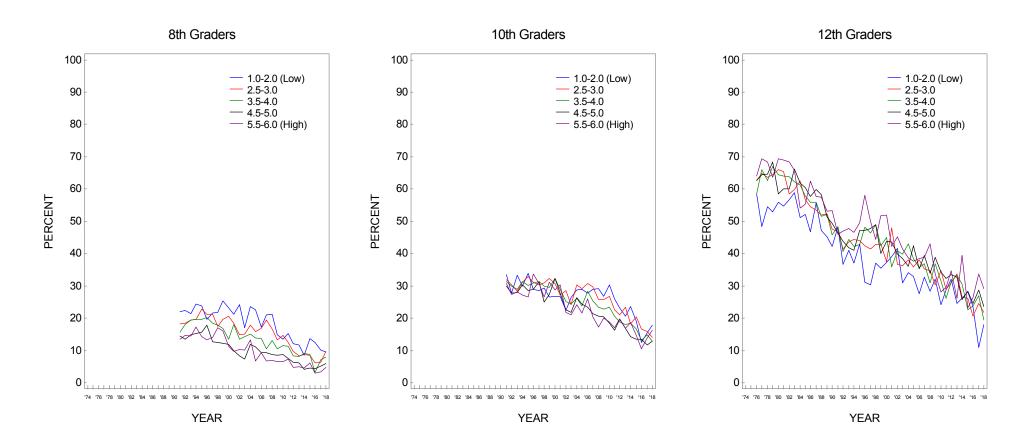
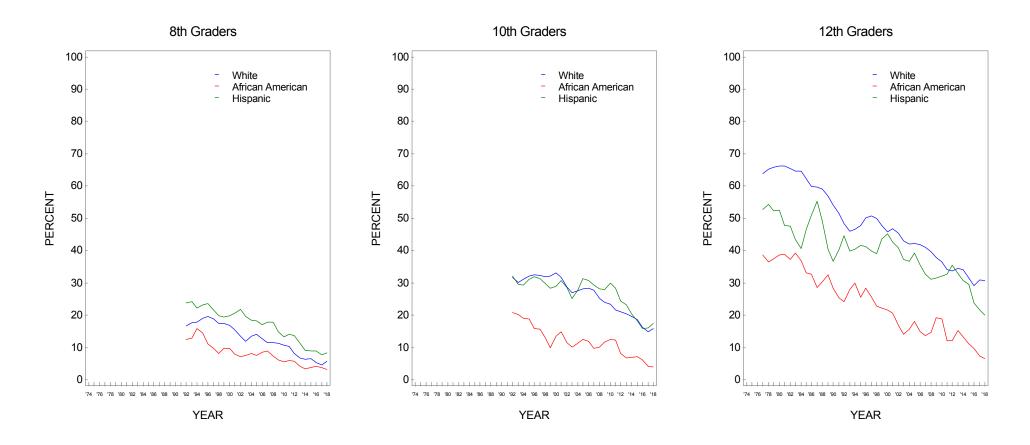


FIGURE 245
Beer: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 246
Beer: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 247
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender

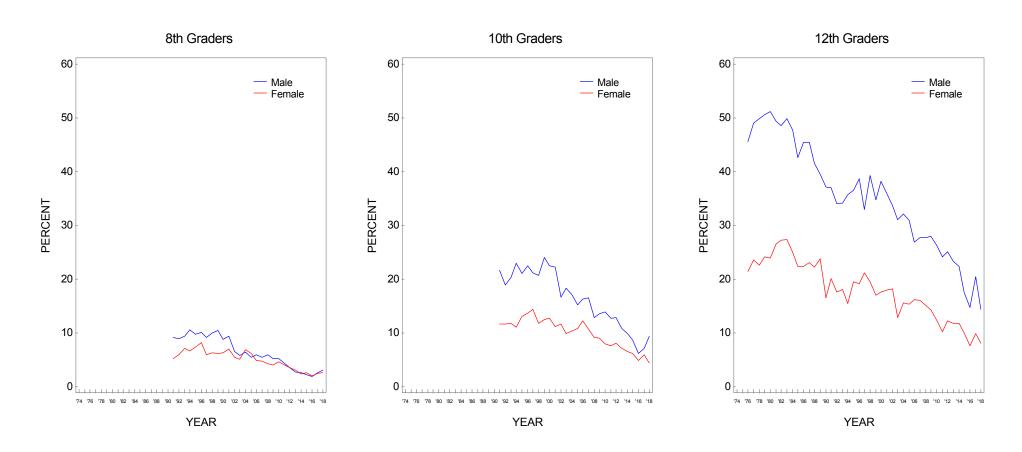


FIGURE 248
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans

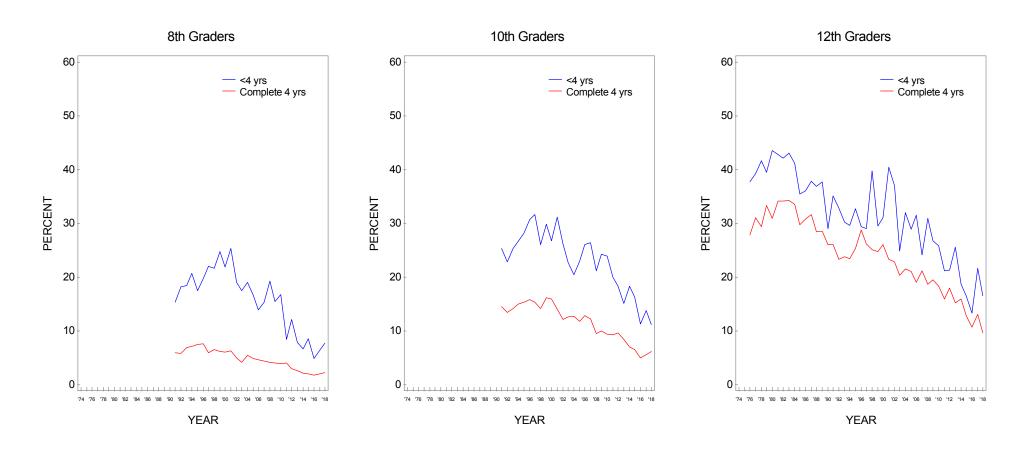


FIGURE 249
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region

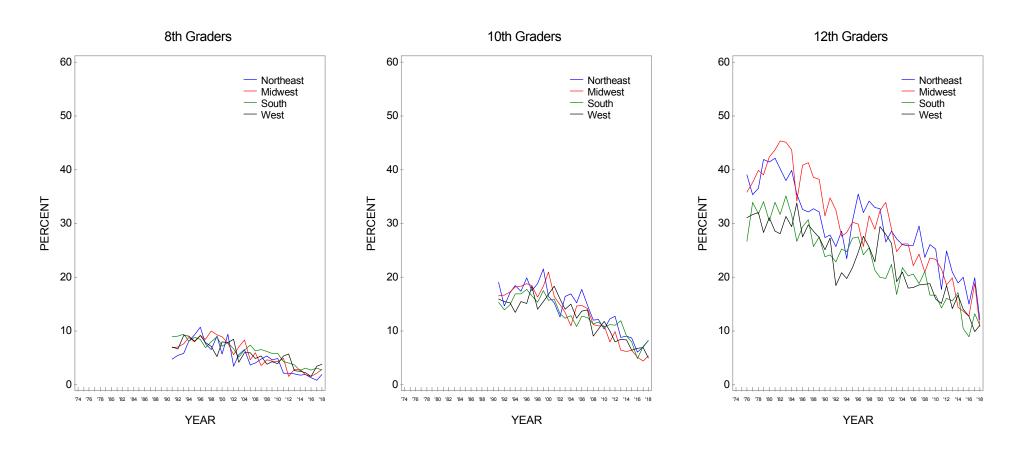


FIGURE 250
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density

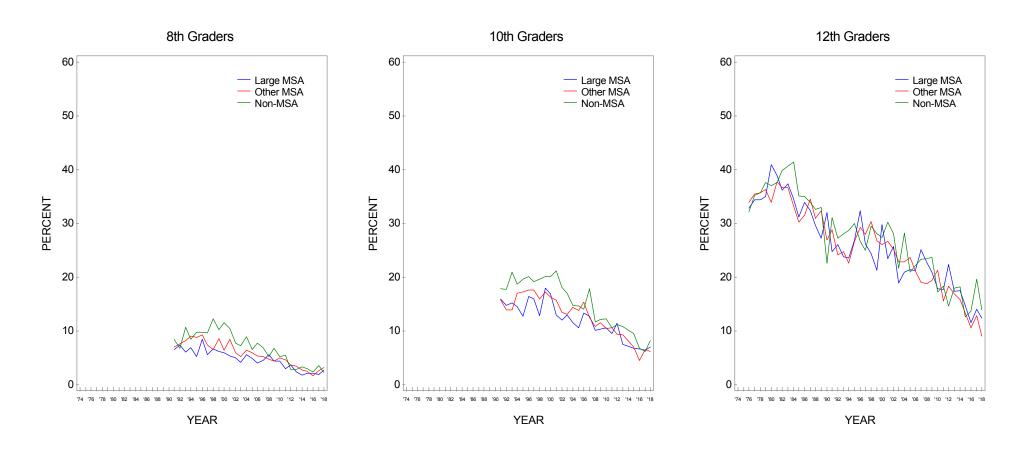
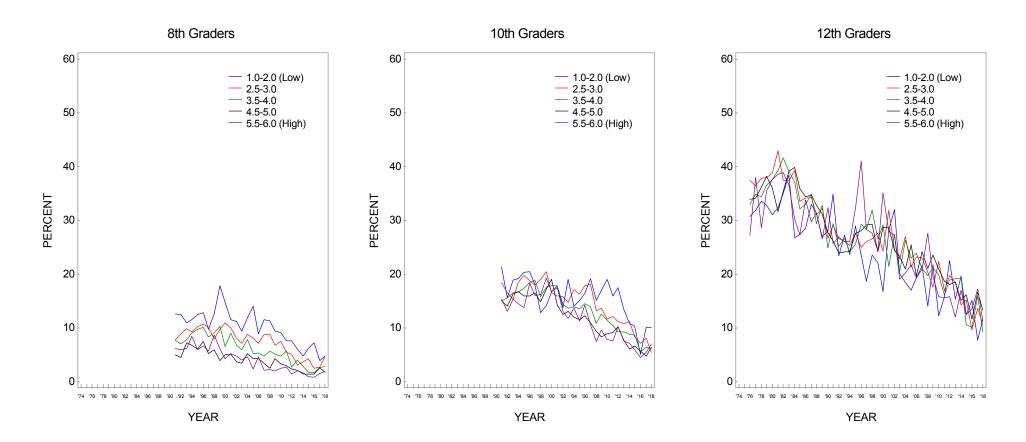
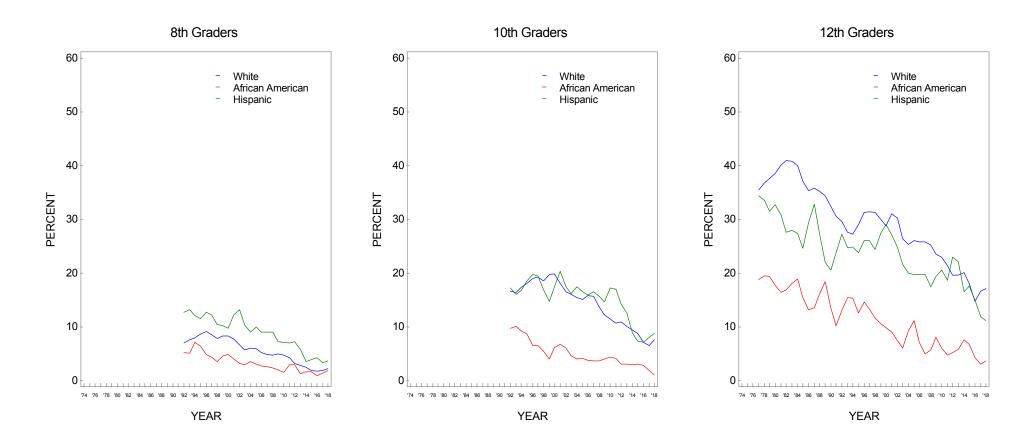


FIGURE 251
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 252
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 253 Liquor: Trends in 30-Day Prevalence by Gender

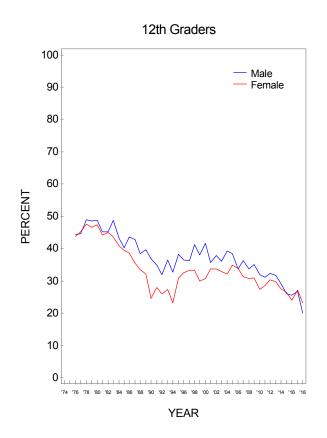


FIGURE 254 Liquor: Trends in 30-Day Prevalence by College Plans

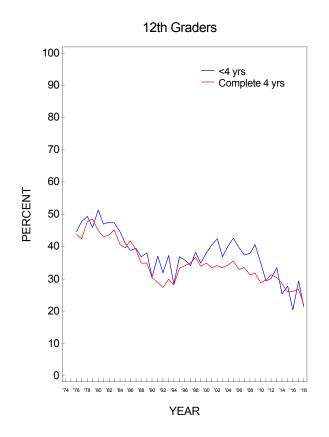


FIGURE 255 Liquor: Trends in 30-Day Prevalence by Region

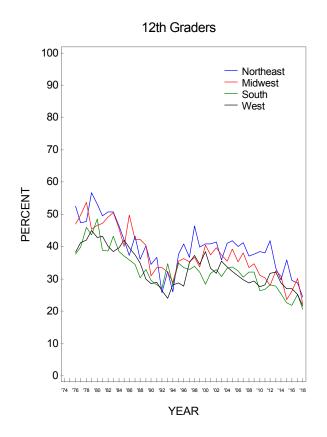


FIGURE 256
Liquor: Trends in 30-Day Prevalence by Population Density

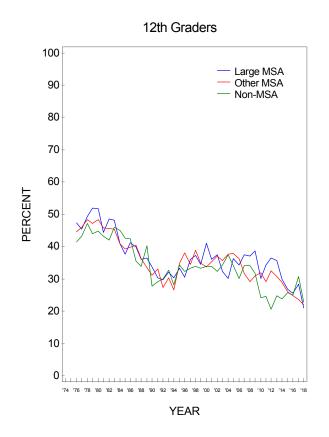
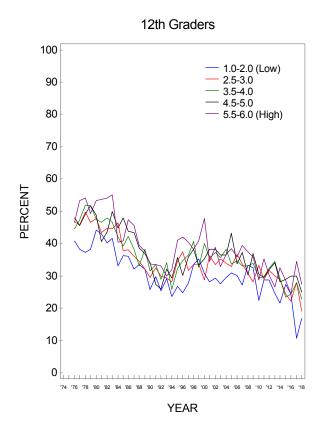
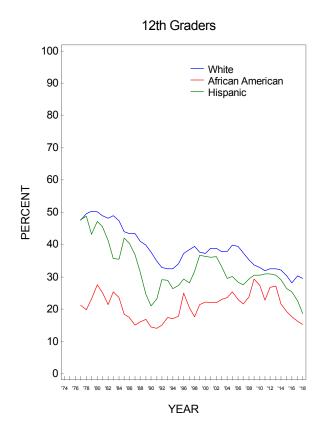


FIGURE 257
Liquor: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 258
Liquor: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 259
Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender

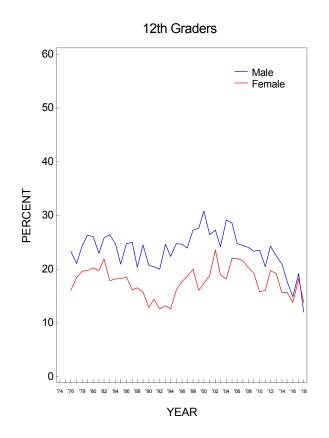


FIGURE 260 Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans

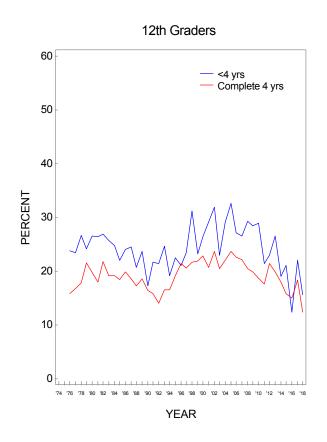


FIGURE 261
Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region

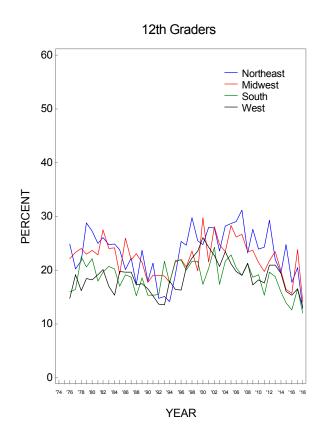


FIGURE 262 Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density

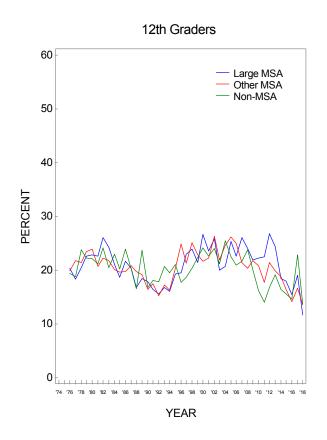
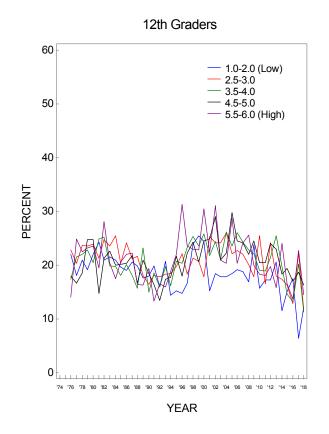
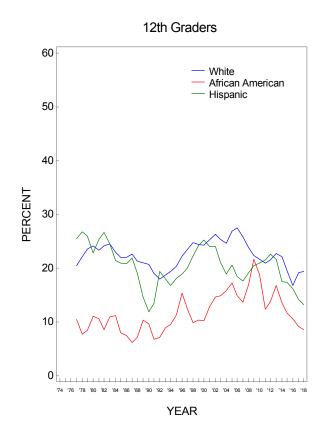


FIGURE 263
Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents\*



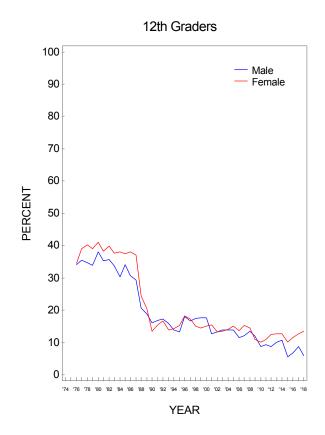
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 264
Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

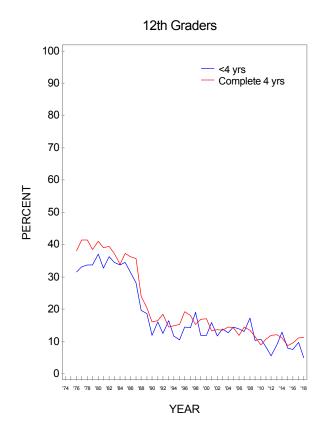
## FIGURE 265 Wine:\* Trends in 30-Day Prevalence by Gender



Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

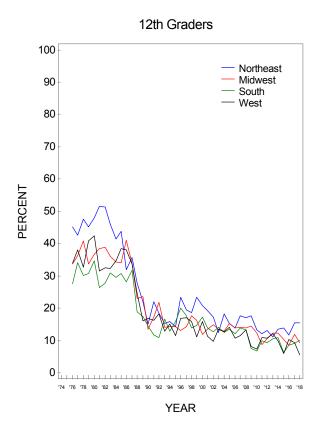
## FIGURE 266 Wine:\* Trends in 30-Day Prevalence by College Plans



Source. The Monitoring the Future study, the University of Michigan.

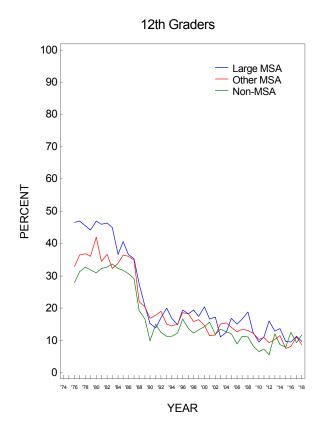
\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 267 Wine:\* Trends in 30-Day Prevalence by Region



<sup>\*</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

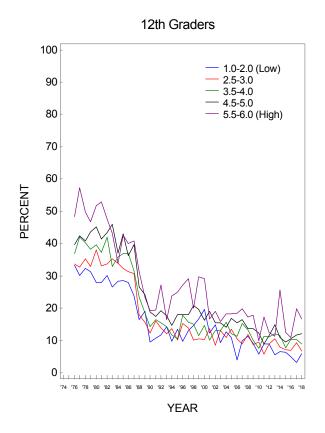
## FIGURE 268 Wine:\* Trends in 30-Day Prevalence by Population Density



Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

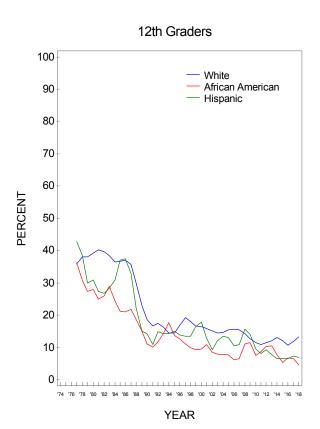
FIGURE 269
Wine:\* Trends in 30-Day Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

## FIGURE 270 Wine:\* Trends in 30-Day Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 271
Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender

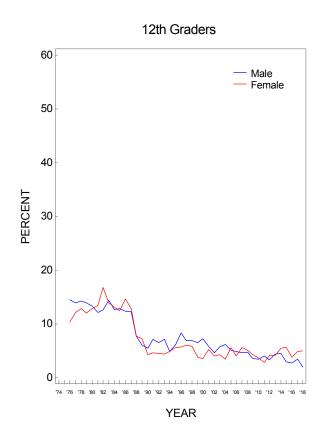
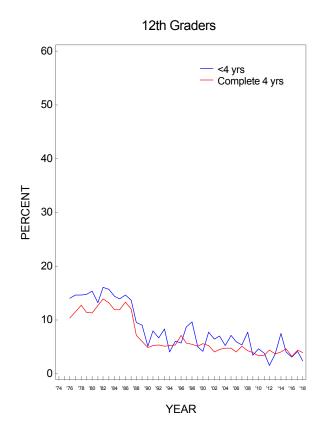
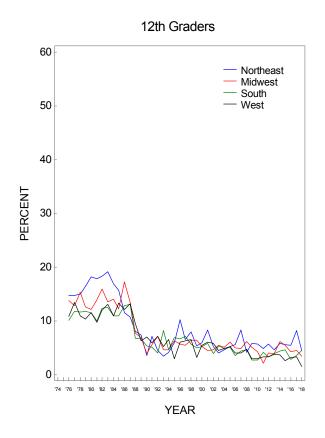


FIGURE 272
Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans



## FIGURE 273 Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region



Source. The Monitoring the Future study, the University of Michigan.

FIGURE 274
Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density

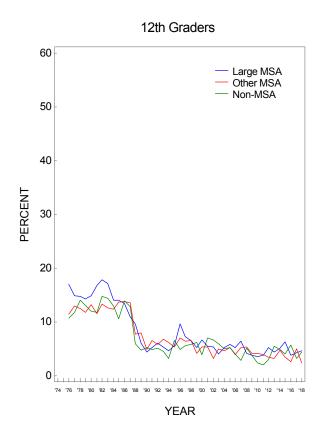
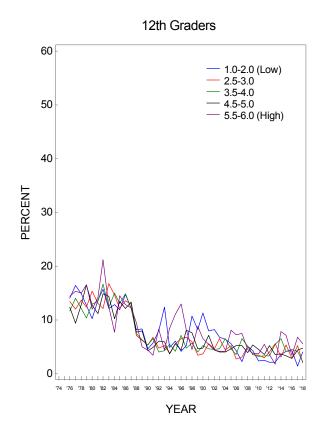


FIGURE 275
Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents\*\*

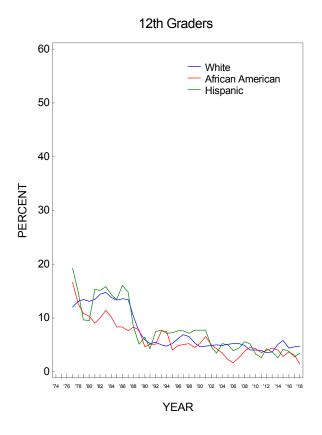


 ${\it Source}. \ \ {\it The Monitoring the Future study, the University of Michigan}.$ 

<sup>\*</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

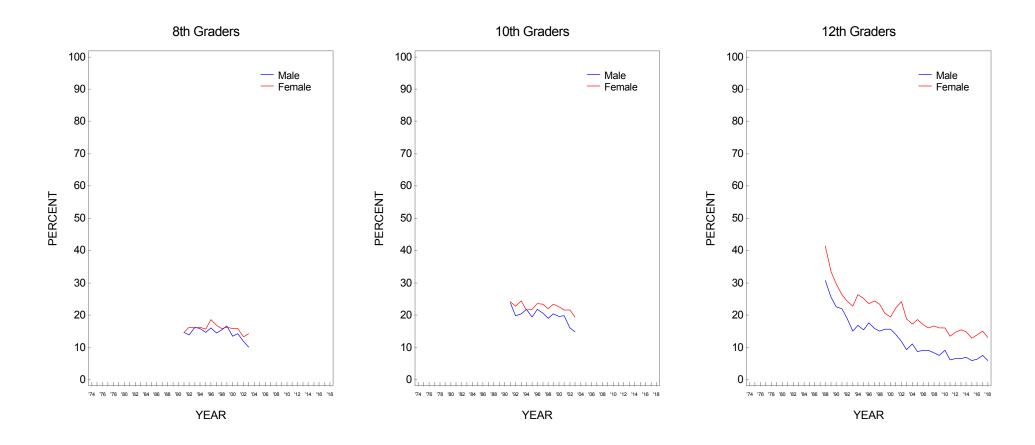
FIGURE 276
Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity\*\*



<sup>\*</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

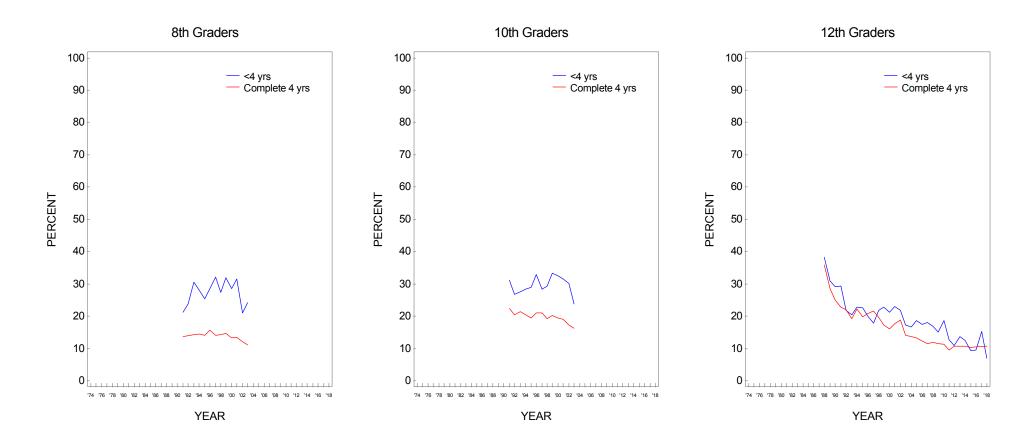
<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 277
Wine Coolers:\* Trends in 30-Day Prevalence by Gender



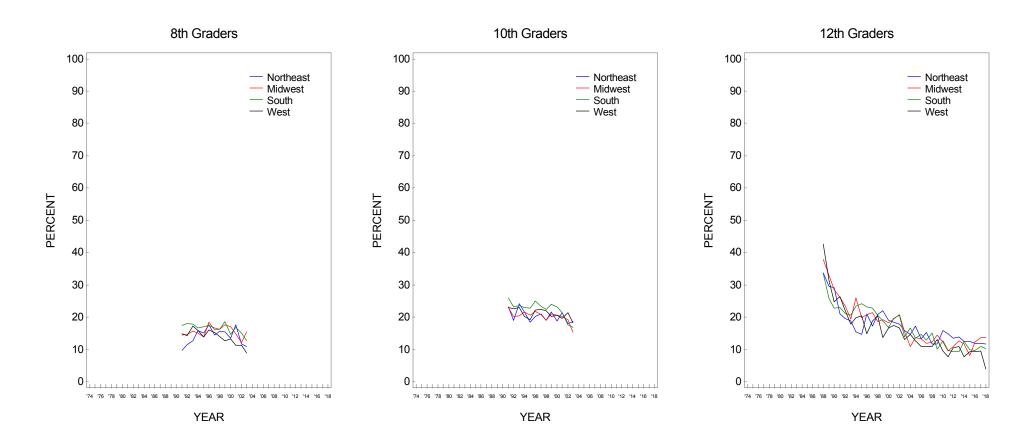
<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

FIGURE 278
Wine Coolers:\* Trends in 30-Day Prevalence by College Plans



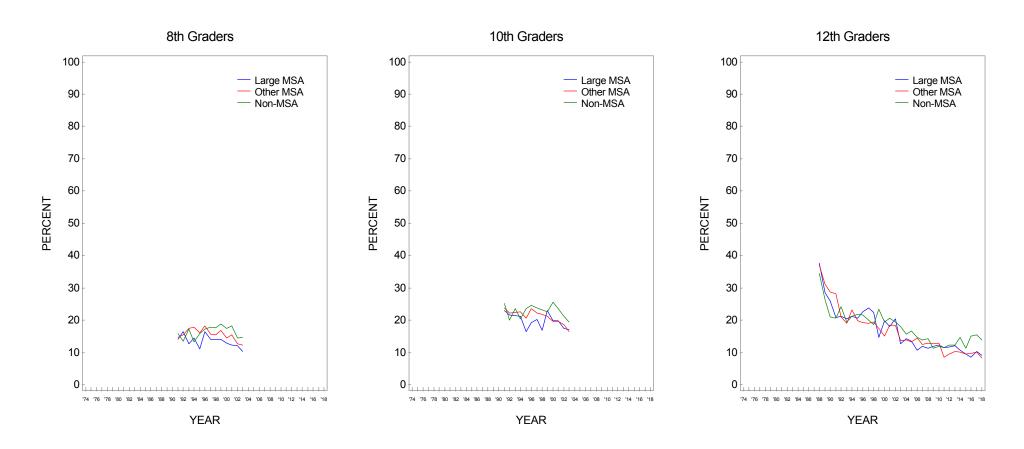
<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

FIGURE 279
Wine Coolers:\* Trends in 30-Day Prevalence by Region



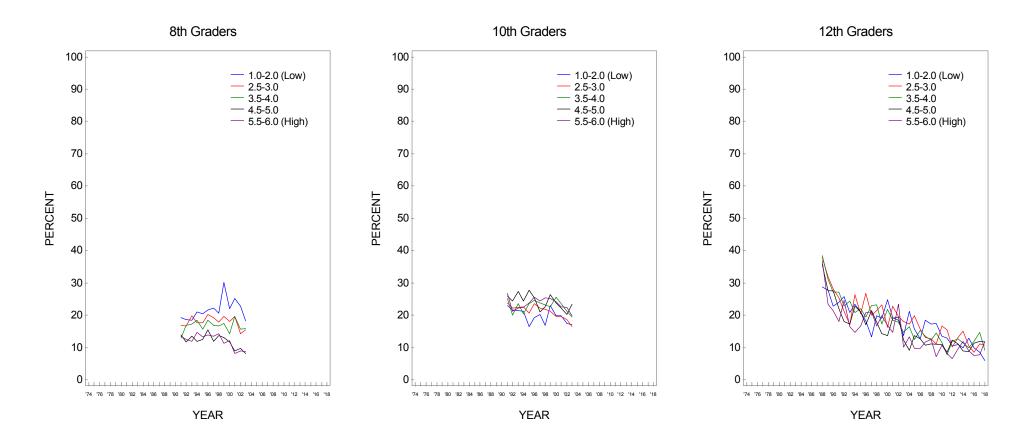
<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

FIGURE 280
Wine Coolers:\* Trends in 30-Day Prevalence by Population Density



<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

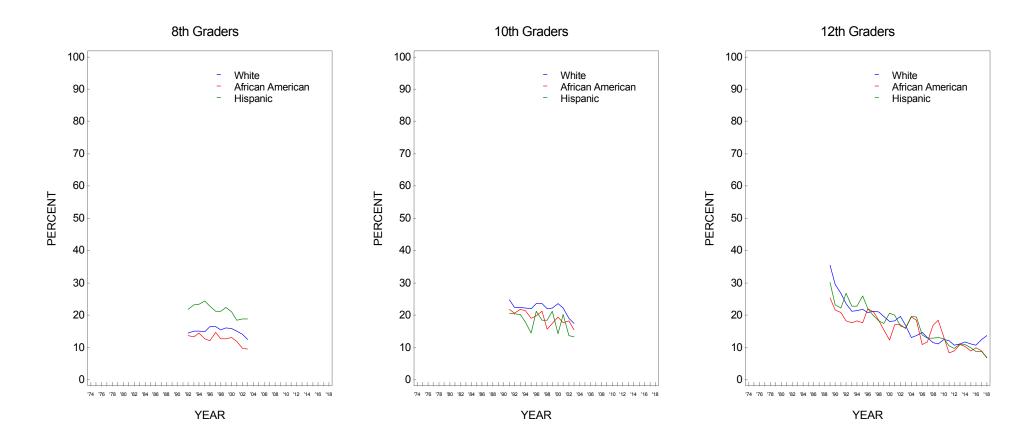
FIGURE 281
Wine Coolers:\* Trends in 30-Day Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 282
Wine Coolers:\* Trends in 30-Day Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>Question discontinued for 8th and 10th graders in 2004.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 283
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender

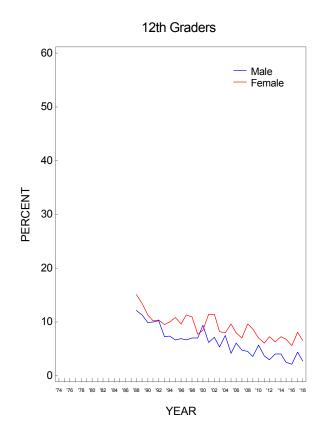


FIGURE 284
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans

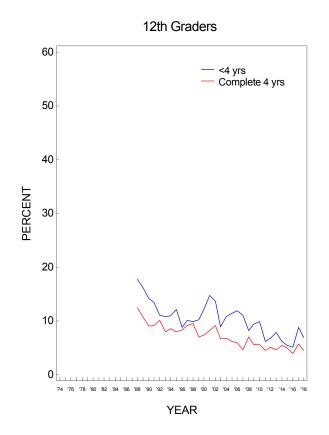


FIGURE 285
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region

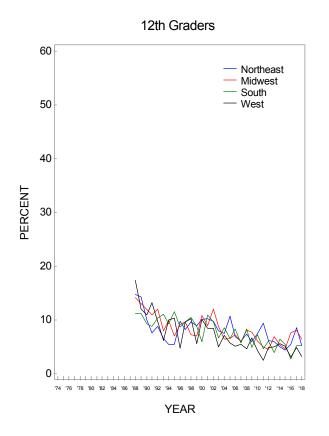


FIGURE 286
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density

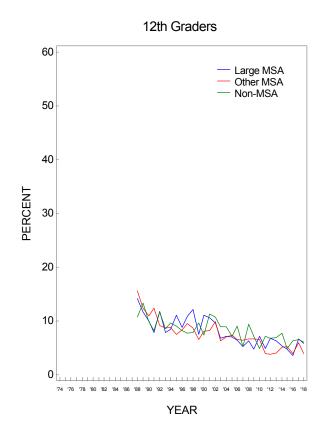
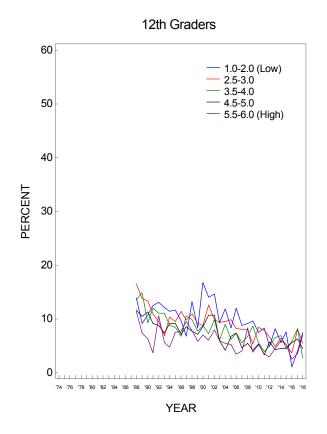
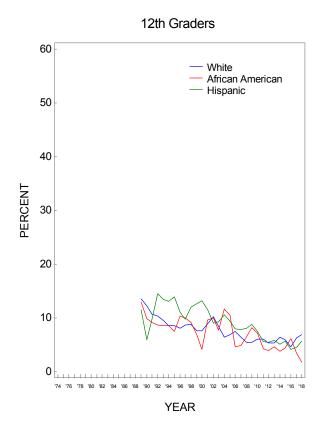


FIGURE 287
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 288
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 289
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Gender

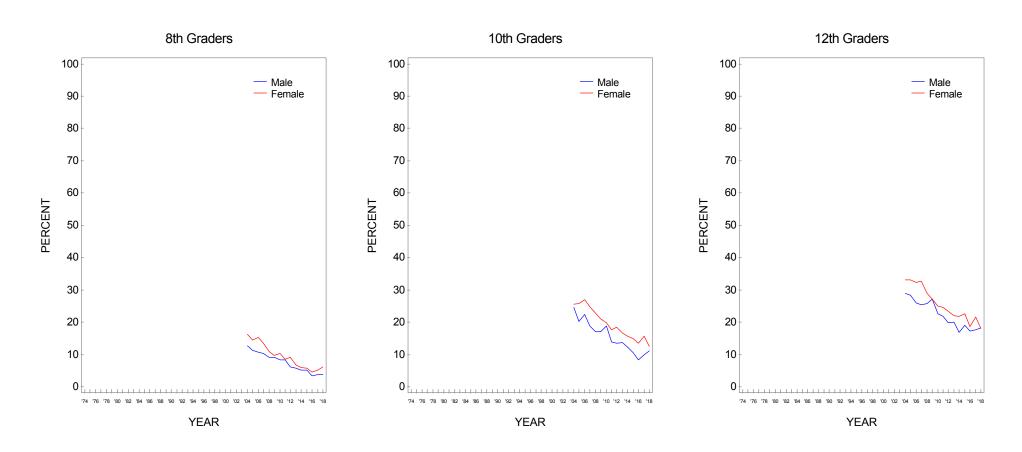


FIGURE 290
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by College Plans

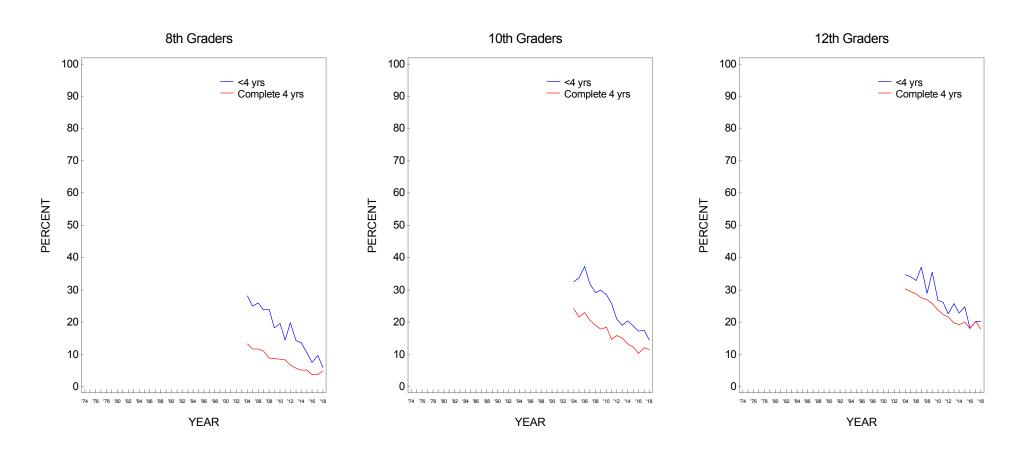


FIGURE 291
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Region

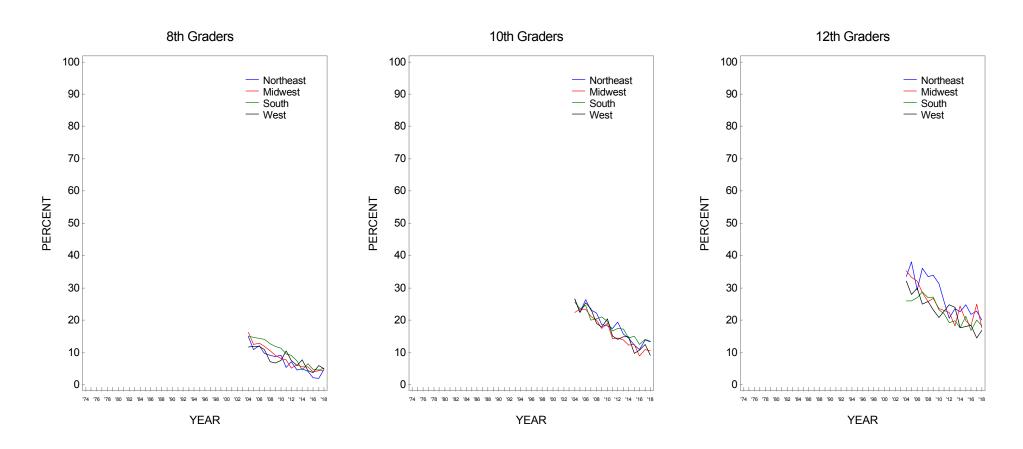


FIGURE 292
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Population Density

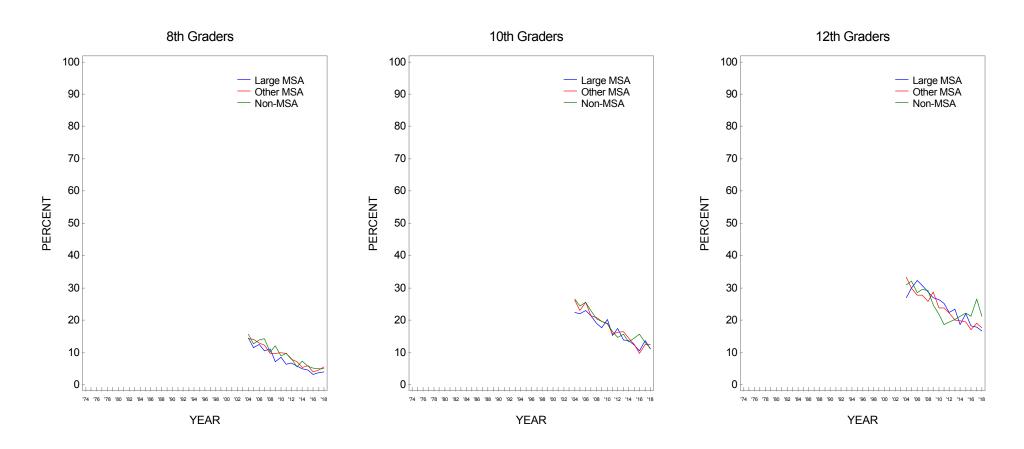
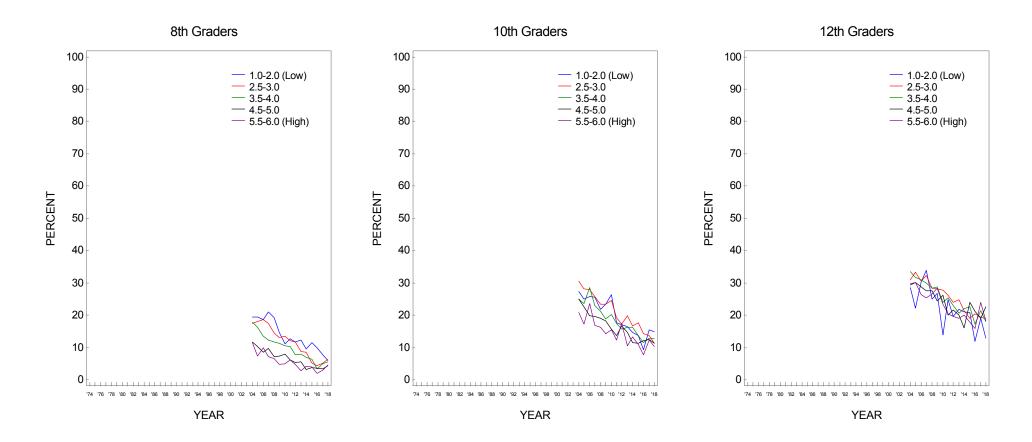
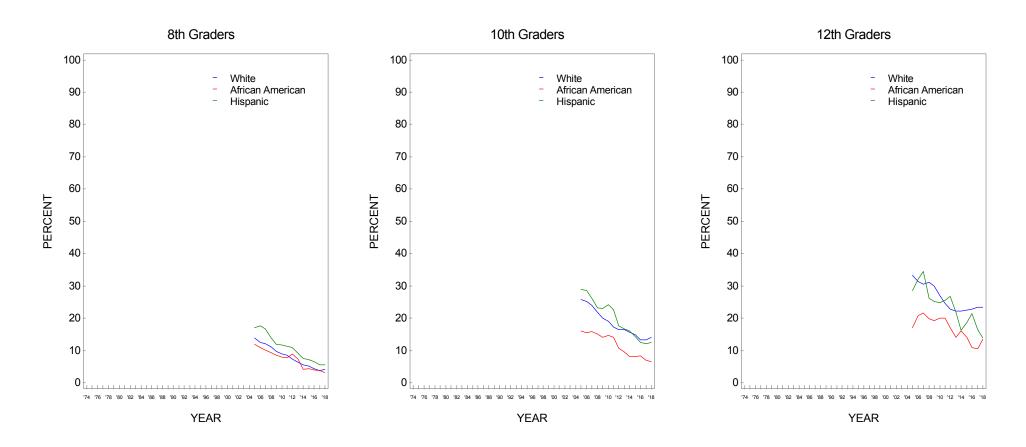


FIGURE 293
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 294
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 295
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Gender

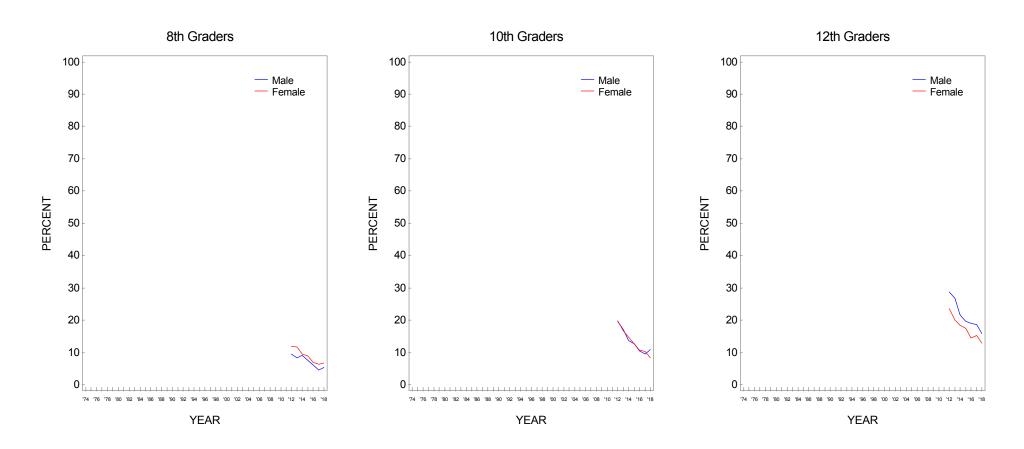


FIGURE 296
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by College Plans

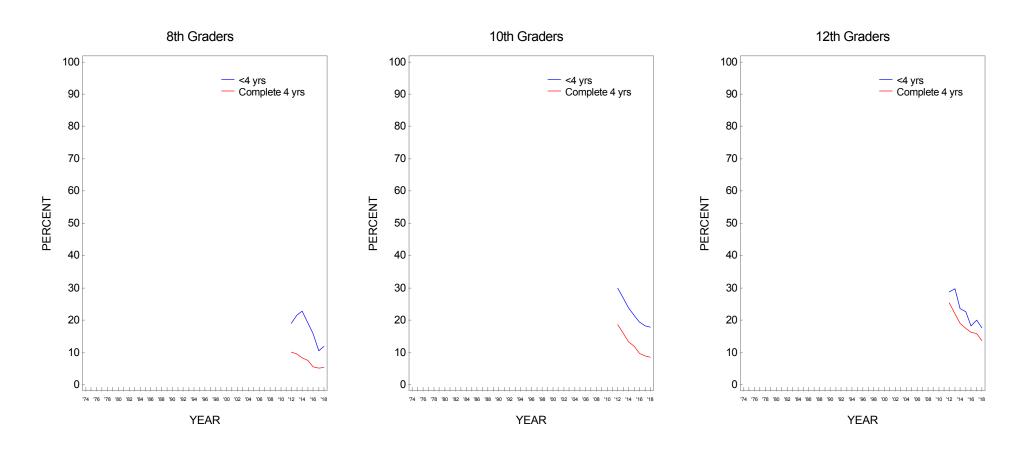


FIGURE 297
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Region

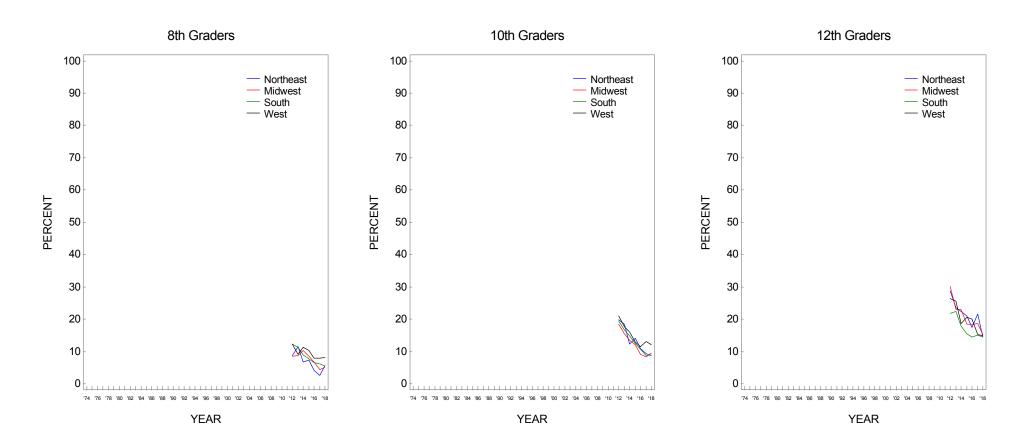


FIGURE 298
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Population Density

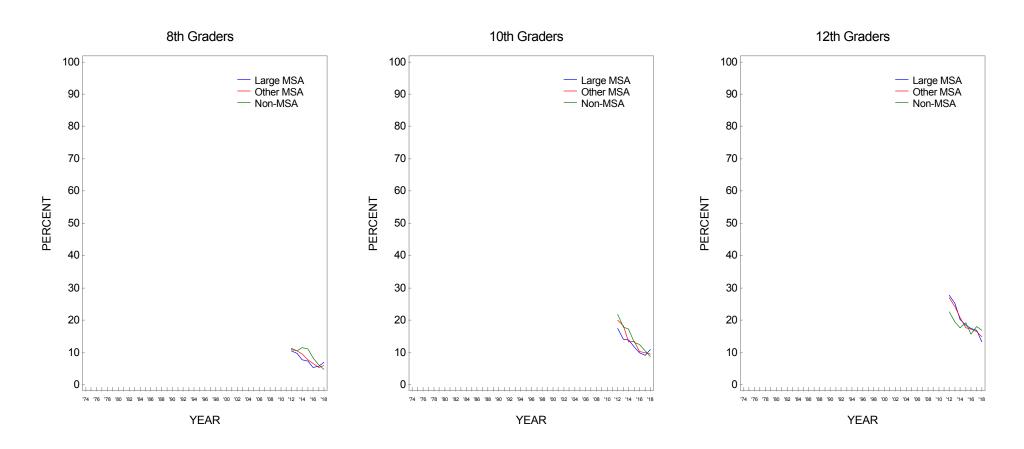
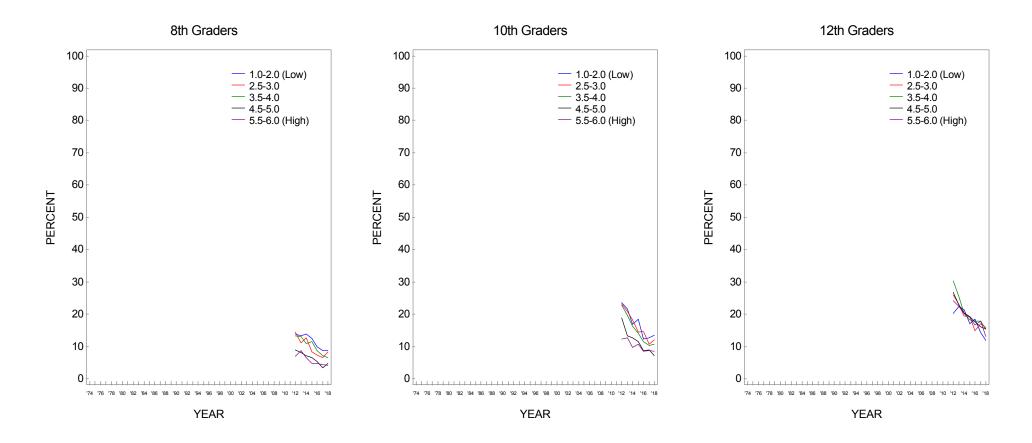
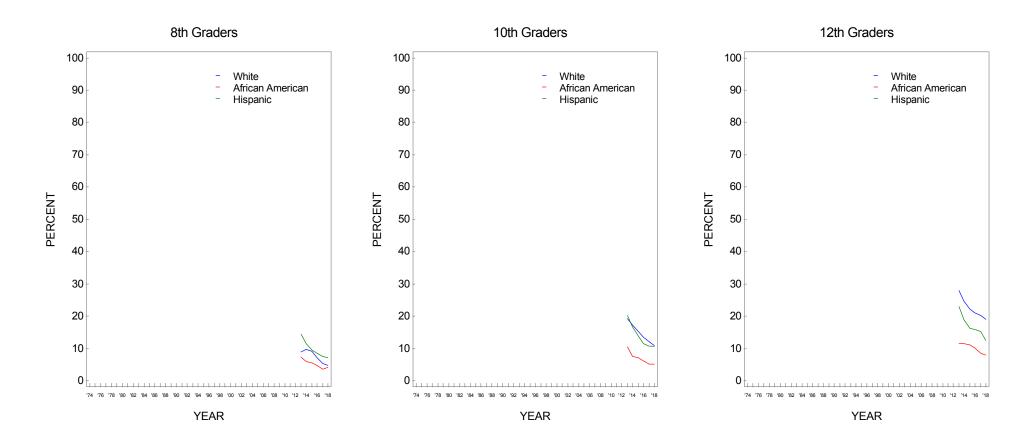


FIGURE 299
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 300
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 301 Cigarettes: Trends in 30-Day Prevalence by Gender

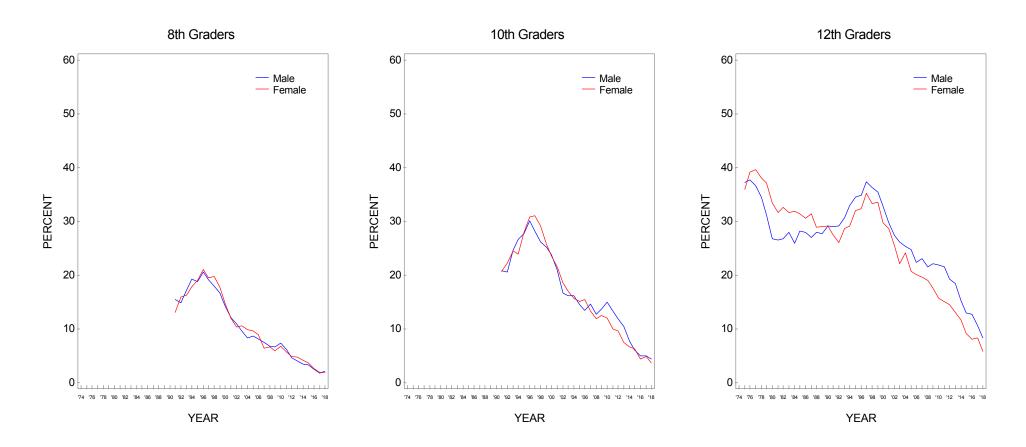


FIGURE 302 Cigarettes: Trends in 30-Day Prevalence by College Plans

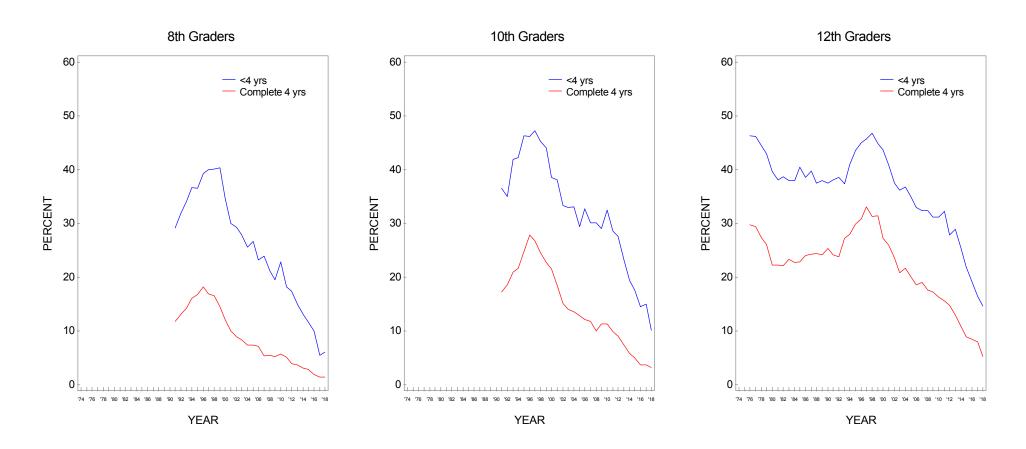


FIGURE 303 Cigarettes: Trends in 30-Day Prevalence by Region

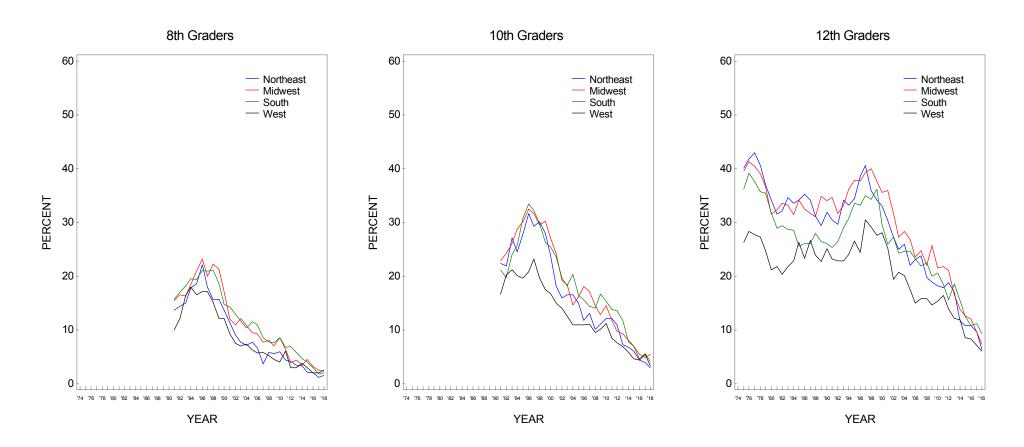


FIGURE 304 Cigarettes: Trends in 30-Day Prevalence by Population Density

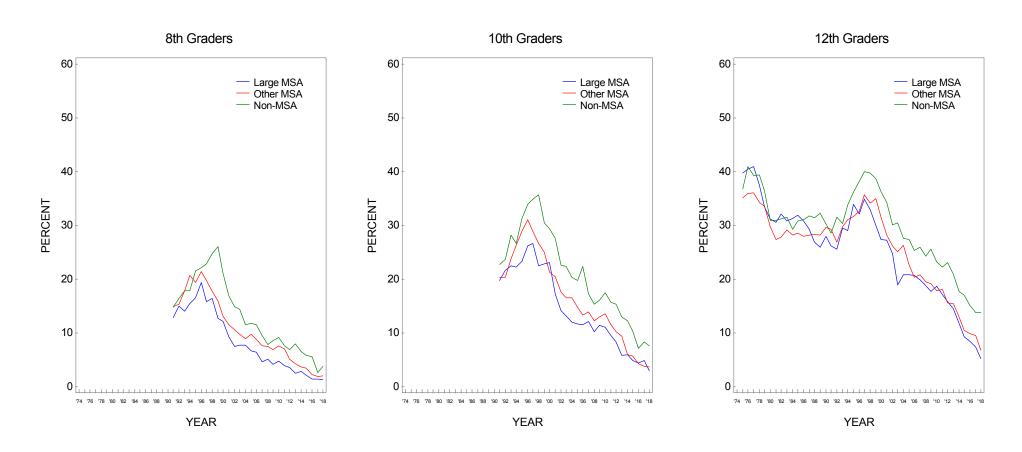
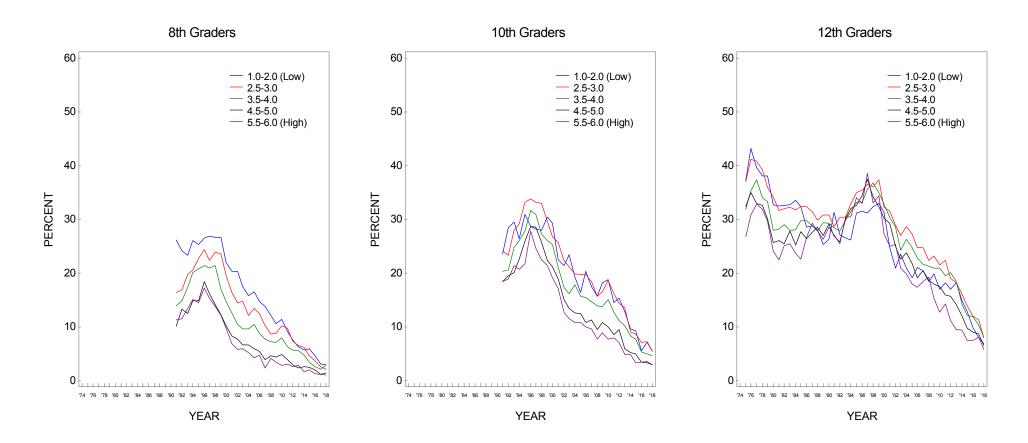
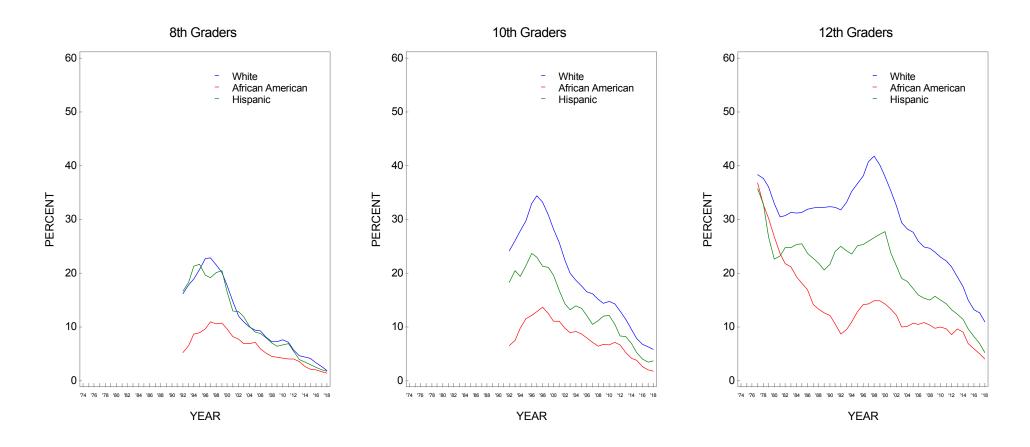


FIGURE 305
Cigarettes: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 306 Cigarettes: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 307 Cigarettes: Trends in 30-Day Prevalence of Daily Use by Gender

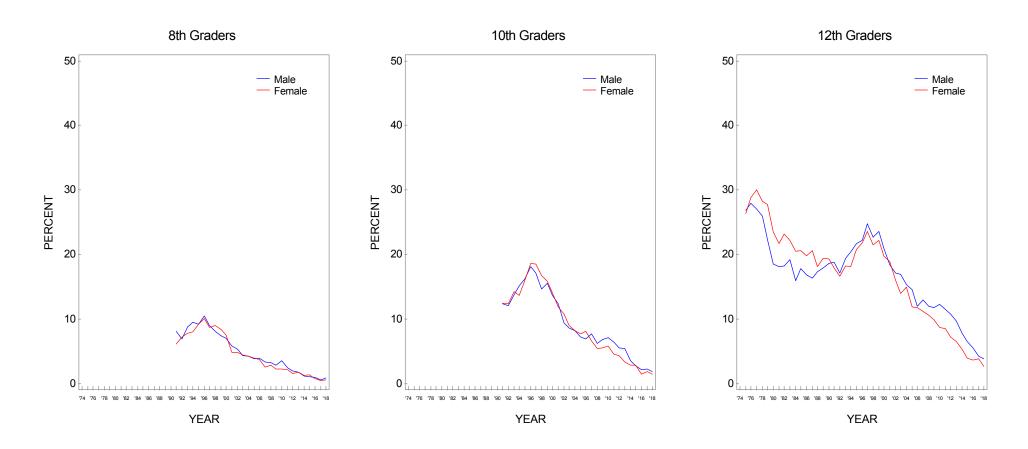


FIGURE 308 Cigarettes: Trends in 30-Day Prevalence of Daily Use by College Plans

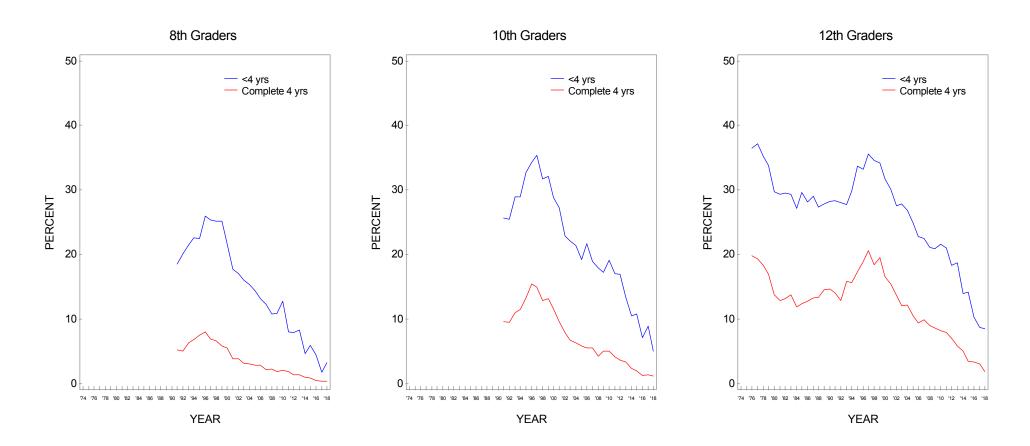


FIGURE 309 Cigarettes: Trends in 30-Day Prevalence of Daily Use by Region

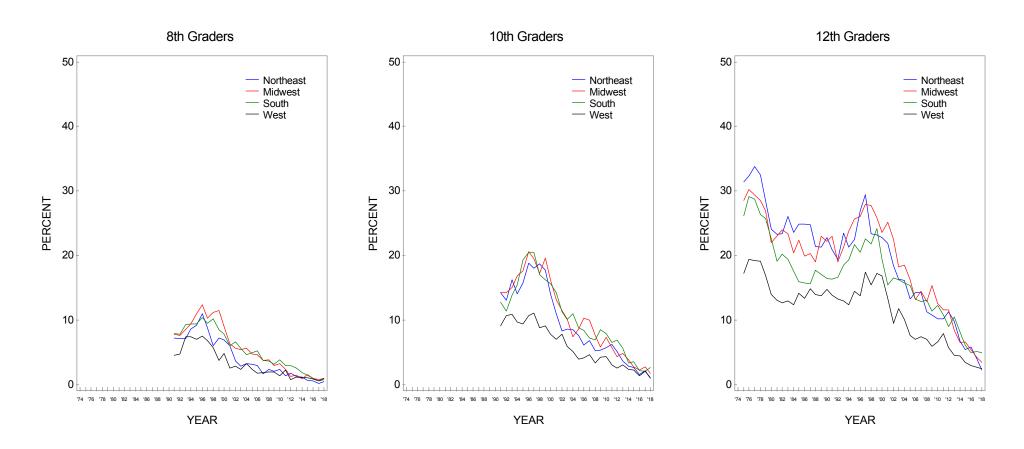


FIGURE 310 Cigarettes: Trends in 30-Day Prevalence of Daily Use by Population Density

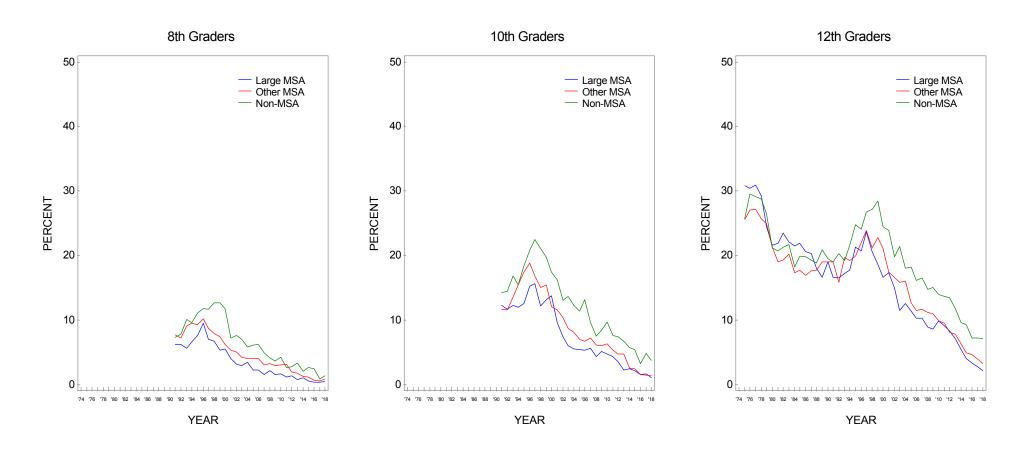
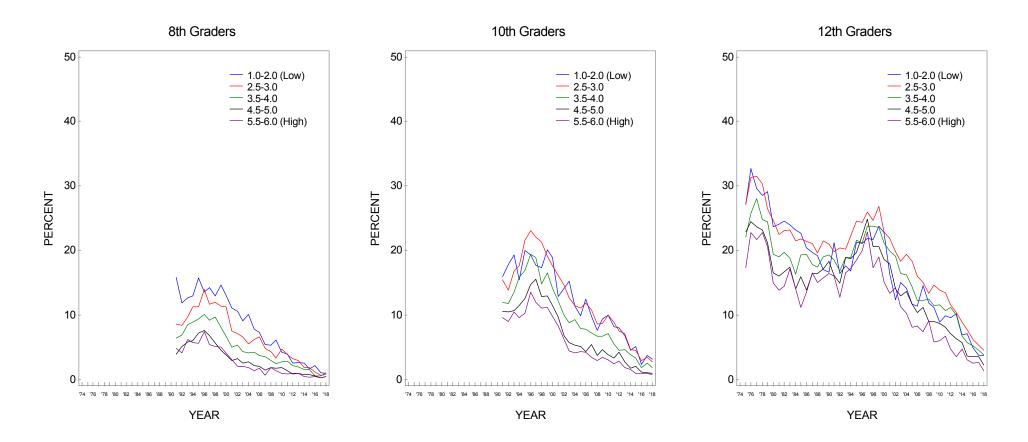
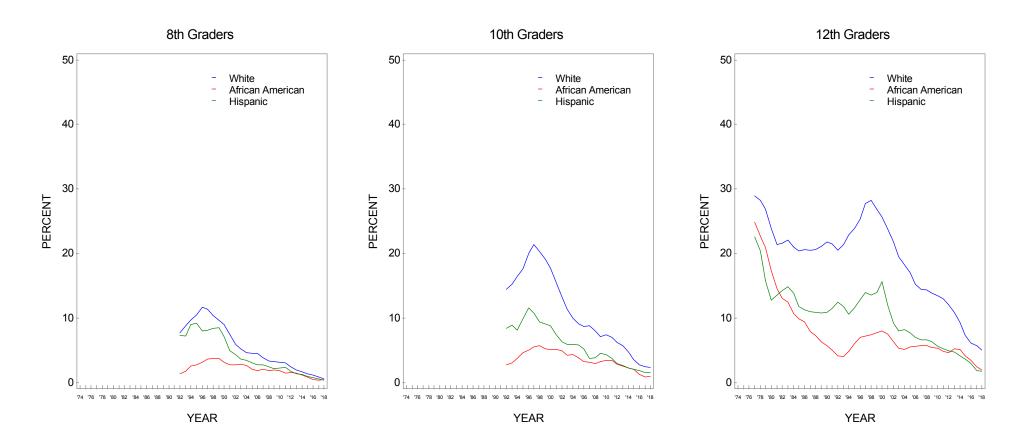


FIGURE 311 Cigarettes: Trends in 30-Day Prevalence of Daily Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 312 Cigarettes: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 313 Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Gender

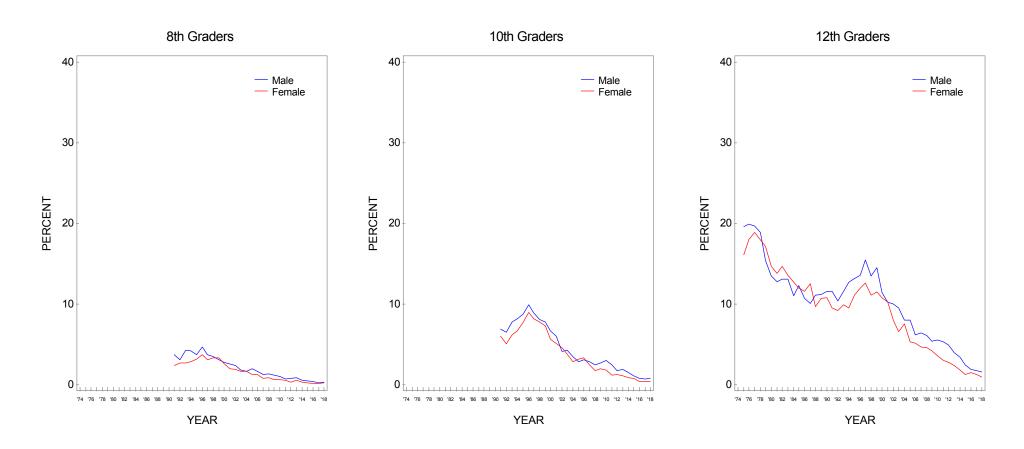


FIGURE 314 Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by College Plans

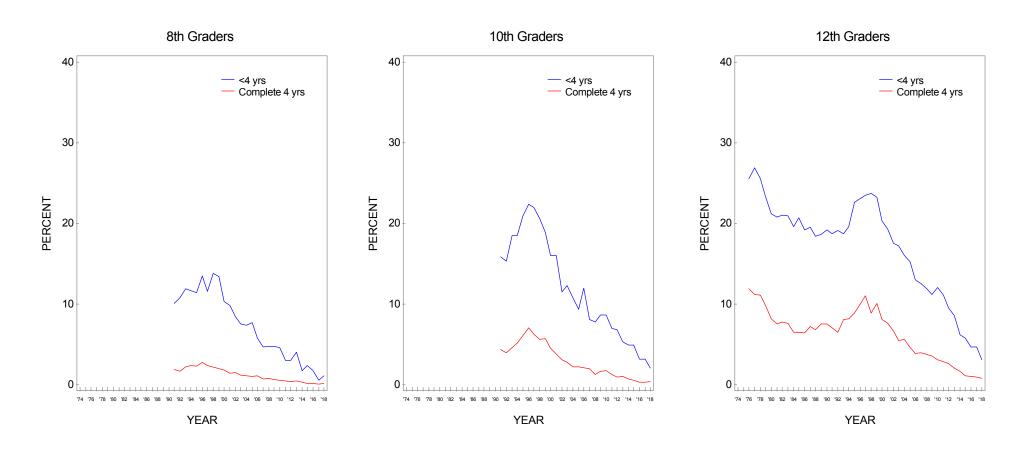


FIGURE 315
Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Region

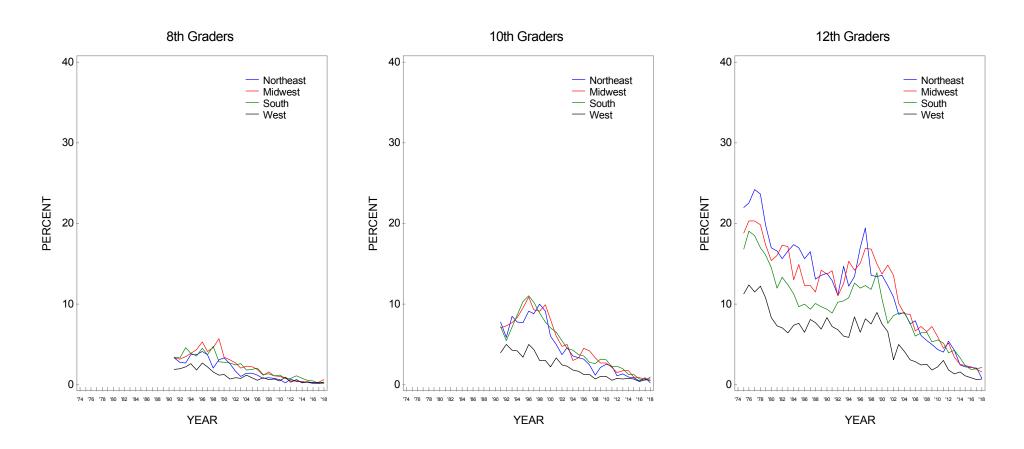


FIGURE 316
Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Population Density

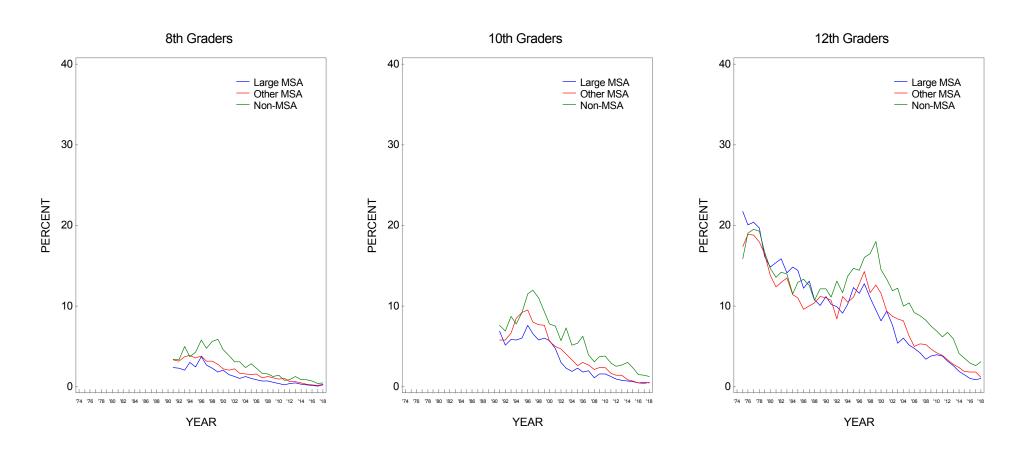
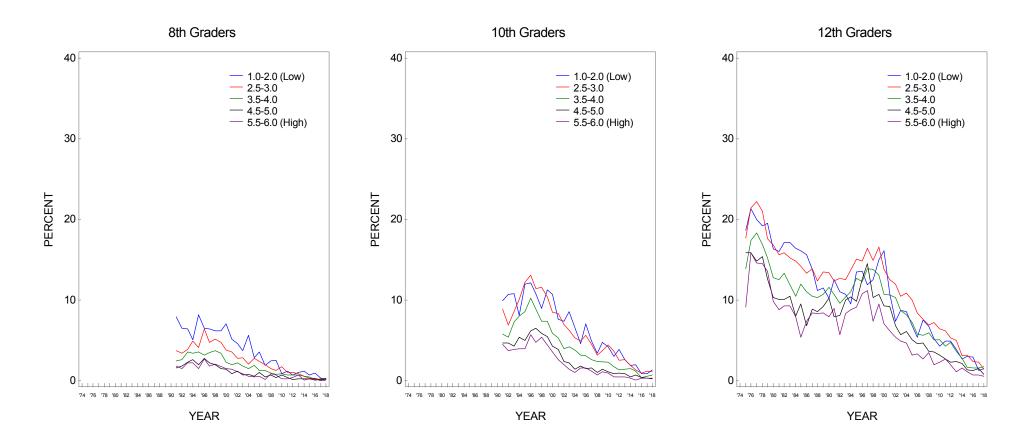
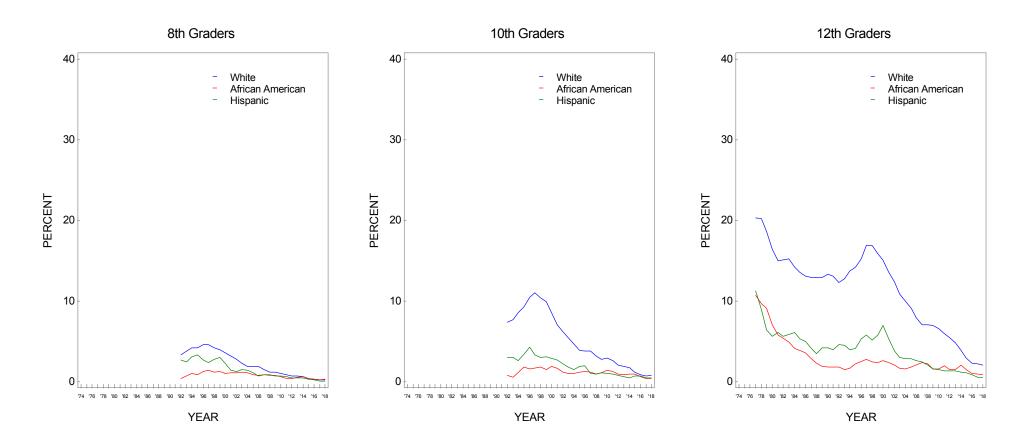


FIGURE 317 Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 318
Cigarettes: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 319
Tobacco using a Hookah: Trends in Annual Prevalence by Gender

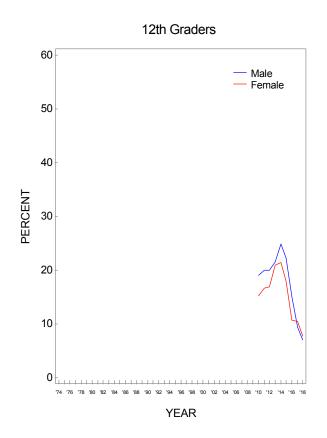


FIGURE 320
Tobacco using a Hookah: Trends in Annual Prevalence by College Plans

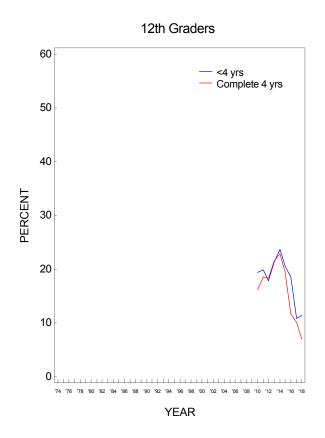


FIGURE 321
Tobacco using a Hookah: Trends in Annual Prevalence by Region

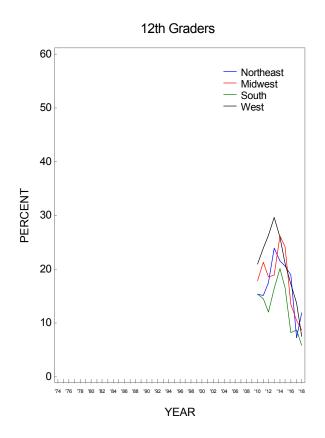


FIGURE 322
Tobacco using a Hookah: Trends in Annual Prevalence by Population Density

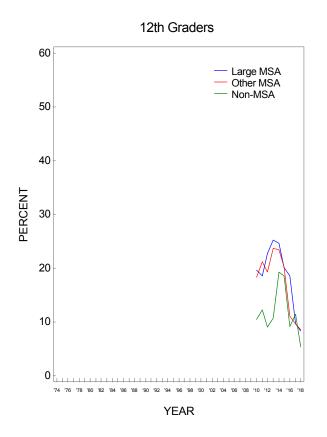
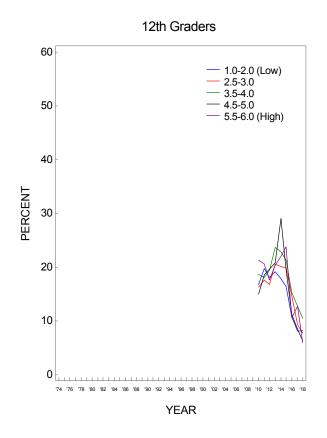
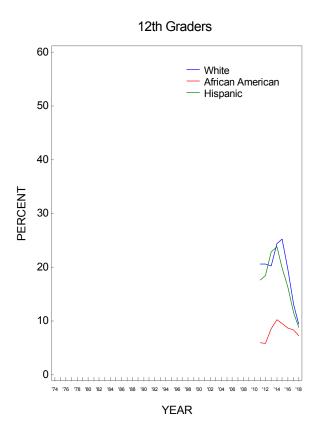


FIGURE 323
Tobacco using a Hookah: Trends in Annual Prevalence by Average Education Level of Parents\*



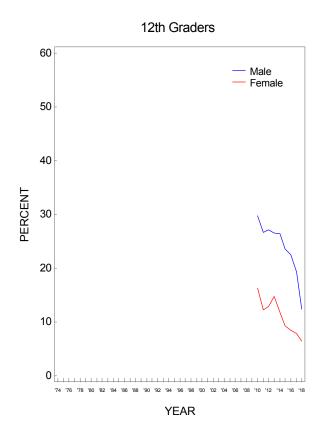
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 324
Tobacco using a Hookah: Trends in Annual Prevalence by Race/Ethnicity\*



\*To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 325
Small Cigars\*: Trends in Annual Prevalence by Gender



\*Question text is: During the last 12 months, on how many occasions have you smoked small cigars?

FIGURE 326 Small Cigars: Trends in Annual Prevalence by College Plans

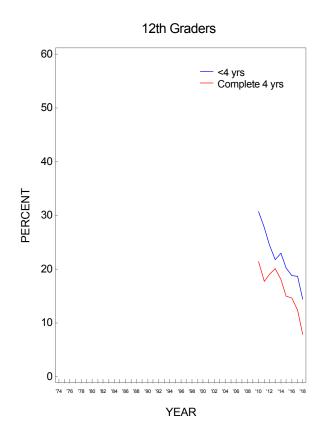


FIGURE 327 Small Cigars: Trends in Annual Prevalence by Region

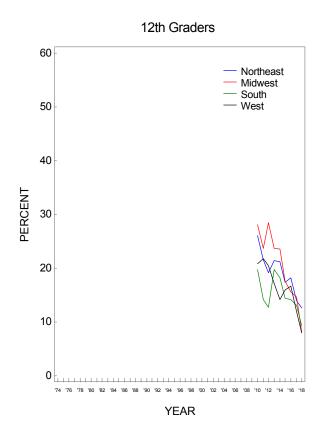


FIGURE 328
Small Cigars: Trends in Annual Prevalence by Population Density

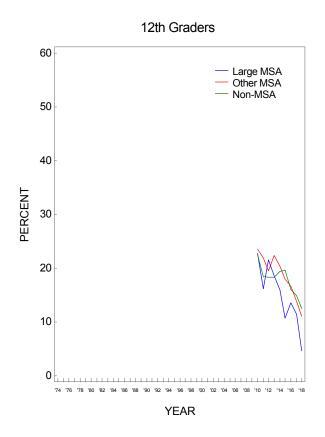
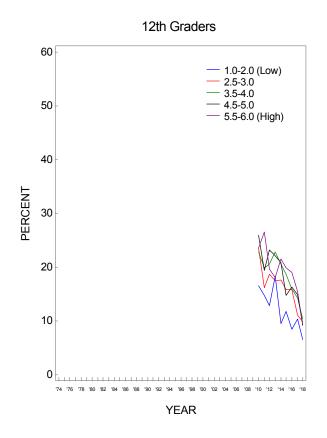
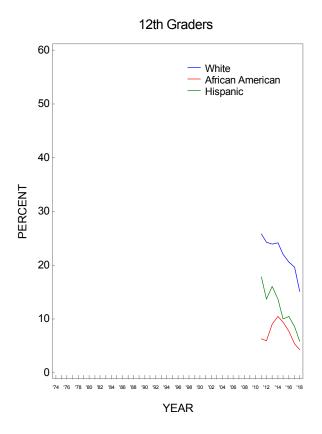


FIGURE 329
Small Cigars: Trends in Annual Prevalence by Average Education Level of Parents\*



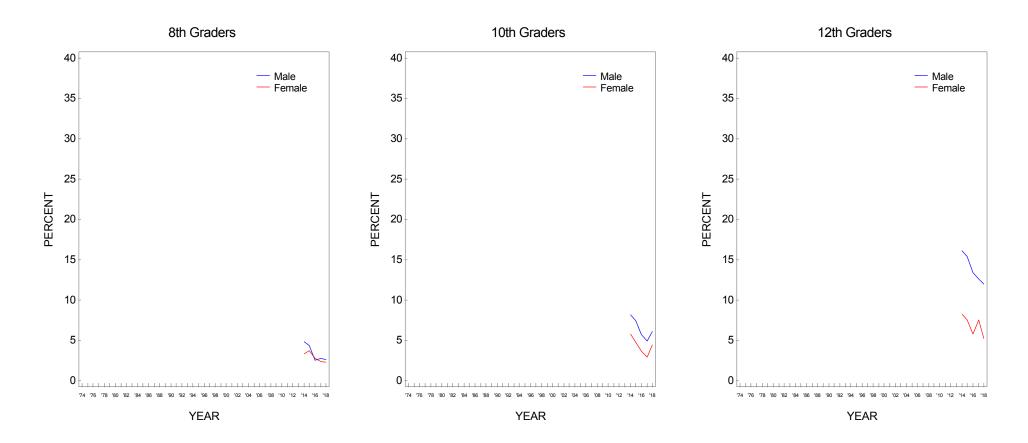
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 330
Small Cigars: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 331
Flavored Little Cigars\*: Trends in 30-Day Prevalence by Gender



<sup>\*</sup>Question text is: During the last 30 days, on how many days (if any) have you smoked flavored little cigars or cigarillos?

FIGURE 332
Flavored Little Cigars: Trends in 30-Day Prevalence by College Plans

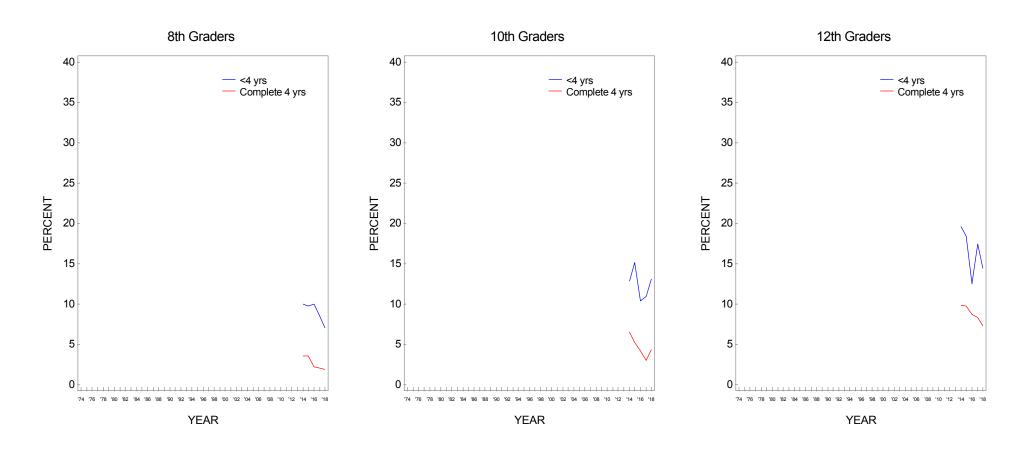


FIGURE 333
Flavored Little Cigars: Trends in 30-Day Prevalence by Region

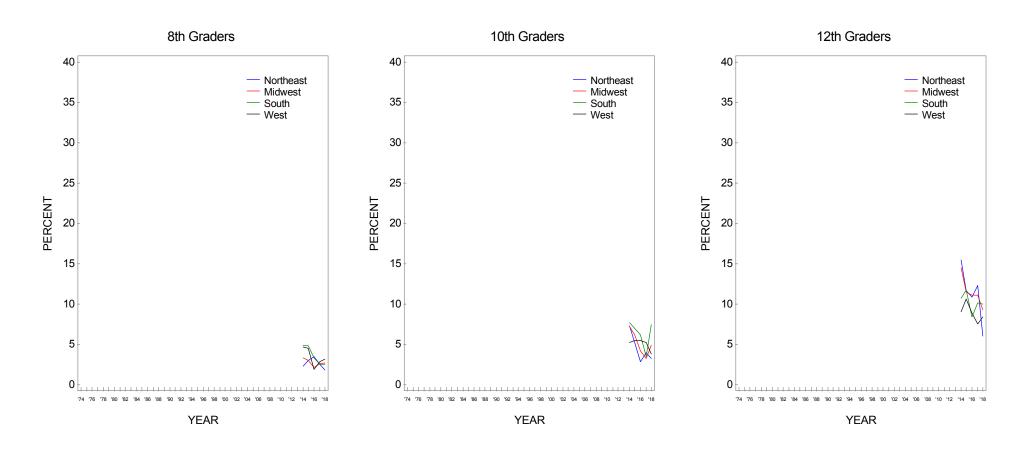


FIGURE 334
Flavored Little Cigars: Trends in 30-Day Prevalence by Population Density

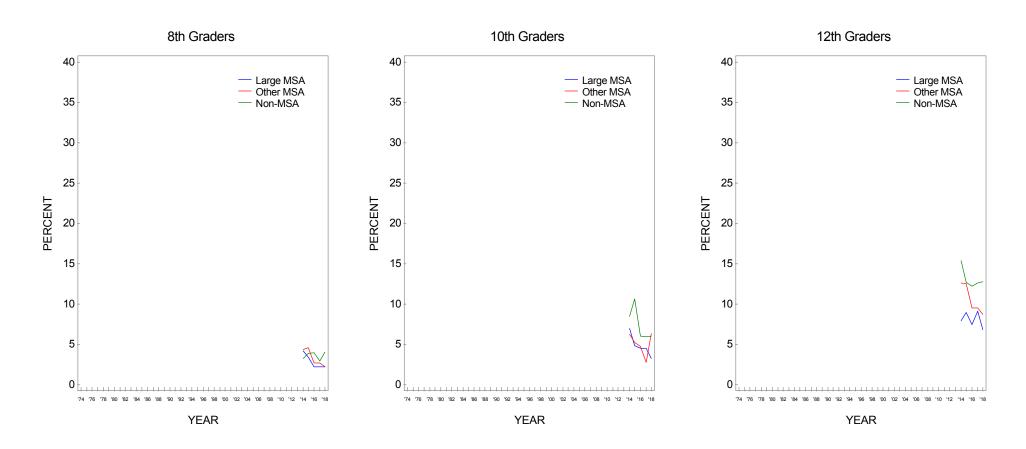
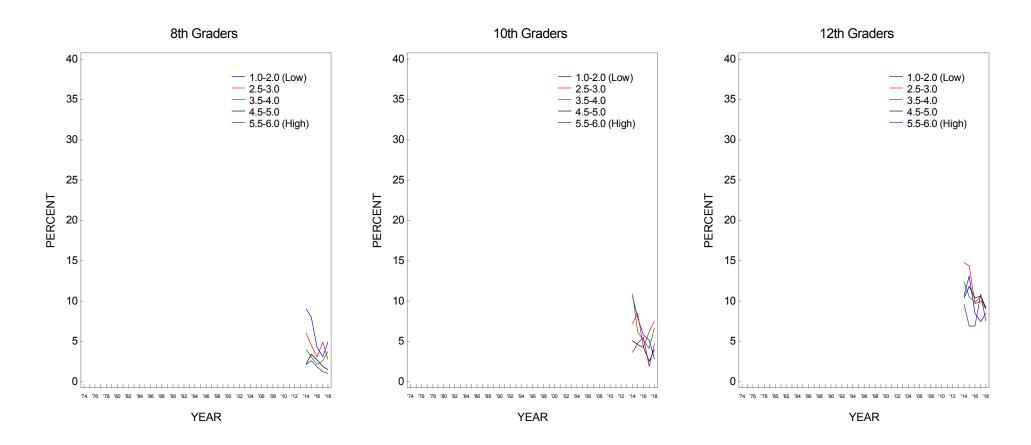
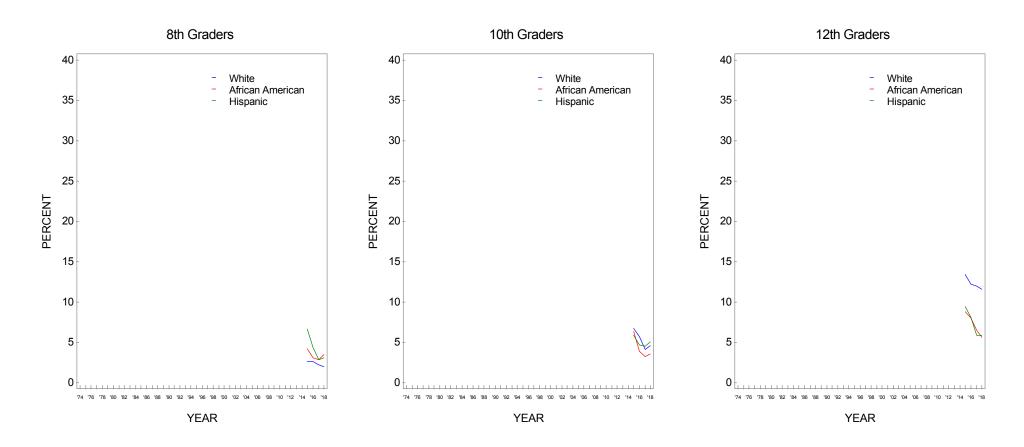


FIGURE 335
Flavored Little Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents\*



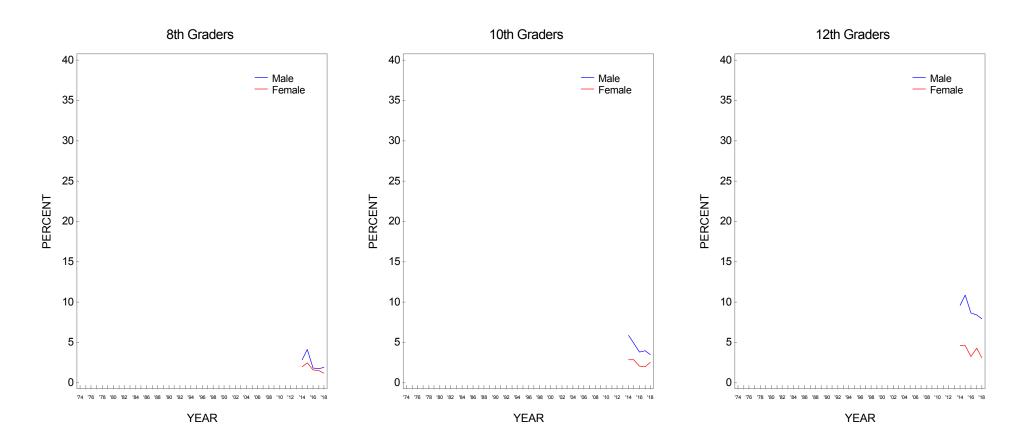
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 336
Flavored Little Cigars: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 337
Regular Little Cigars\*: Trends in 30-Day Prevalence by Gender



<sup>\*</sup>Question text is: During the last 30 days, on how many days (if any) have you smoked regular little cigars or cigarillos?

FIGURE 338
Regular Little Cigars: Trends in 30-Day Prevalence by College Plans

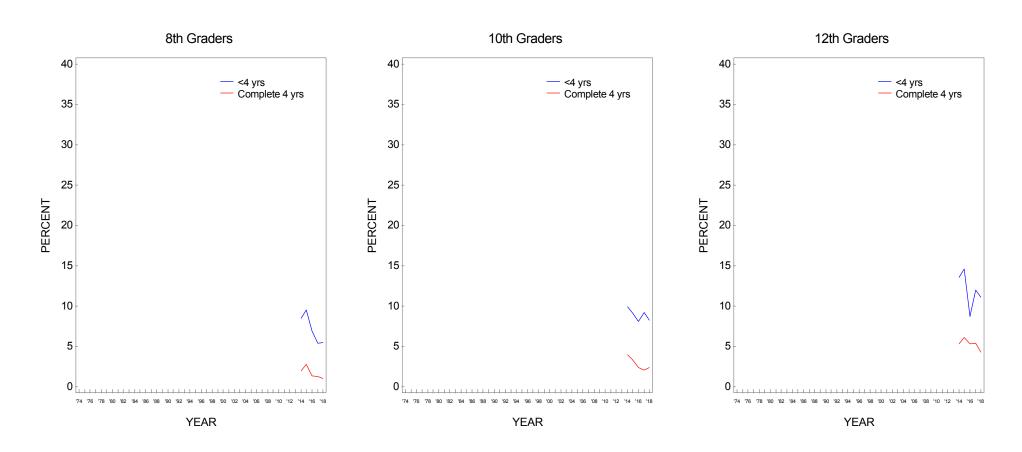


FIGURE 339
Regular Little Cigars: Trends in 30-Day Prevalence by Region

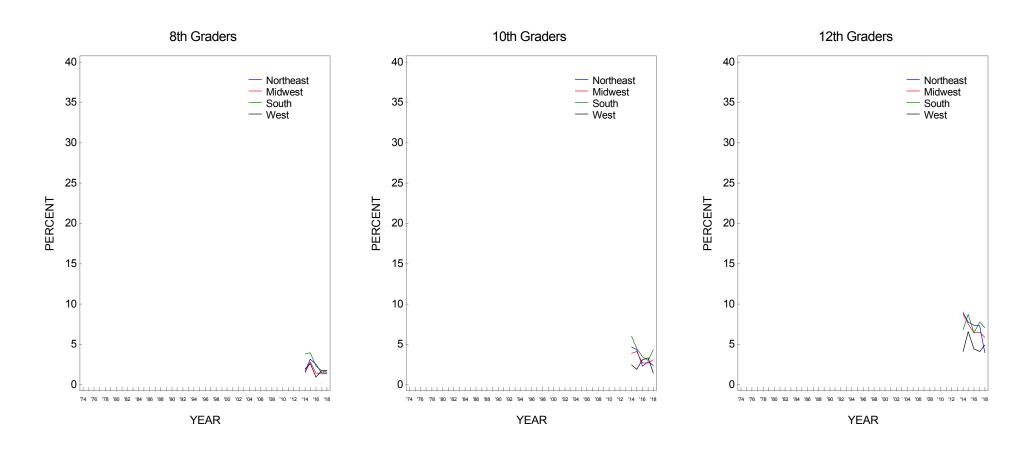


FIGURE 340
Regular Little Cigars: Trends in 30-Day Prevalence by Population Density

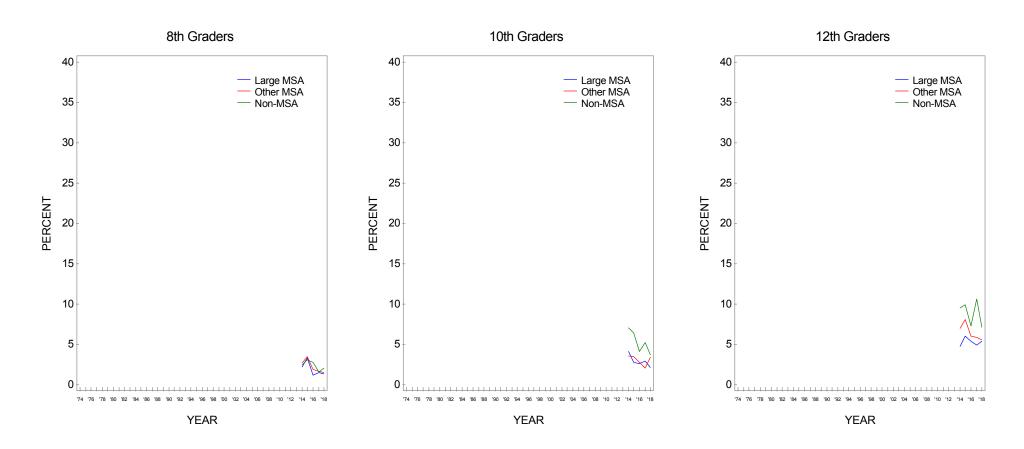
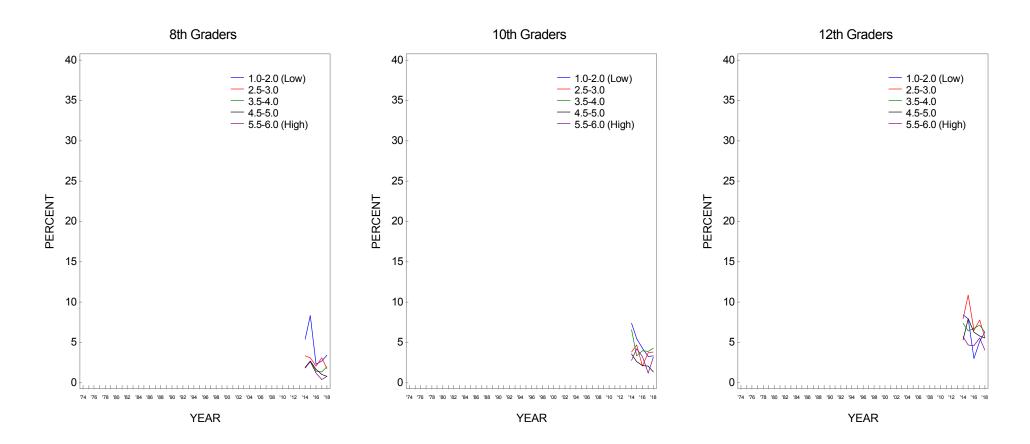
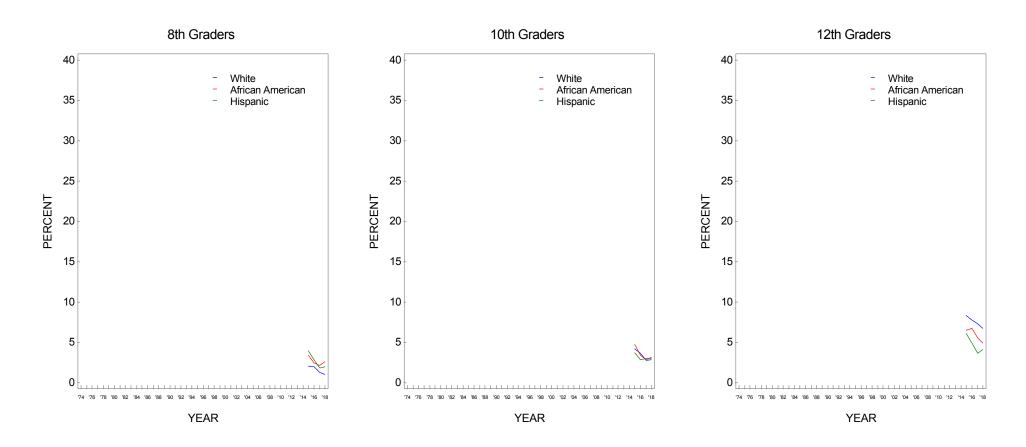


FIGURE 341
Regular Little Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 342
Regular Little Cigars: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 343 Large Cigars: Trends in 30-Day Prevalence by Gender

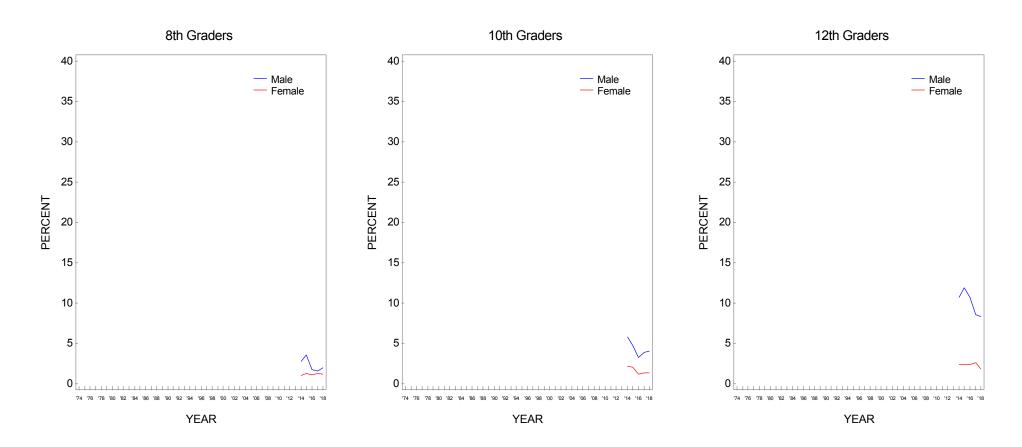


FIGURE 344
Large Cigars: Trends in 30-Day Prevalence by College Plans

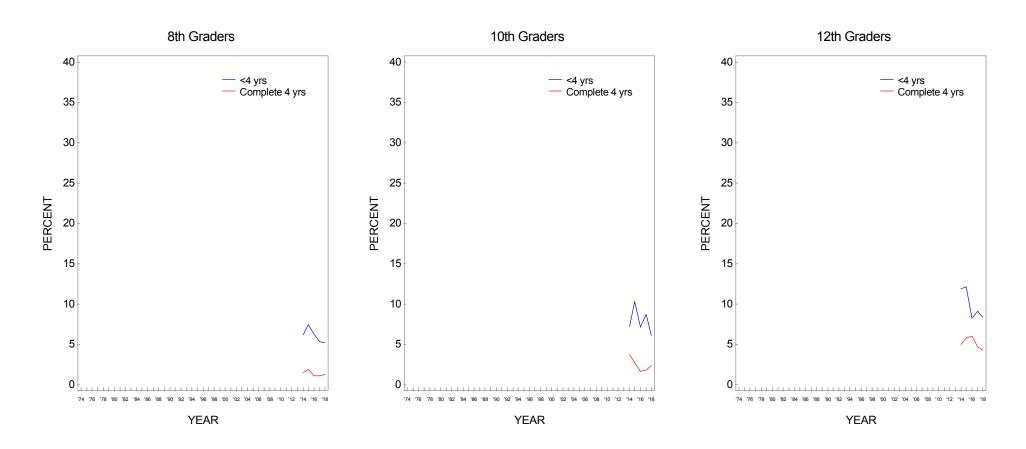


FIGURE 345
Large Cigars: Trends in 30-Day Prevalence by Region

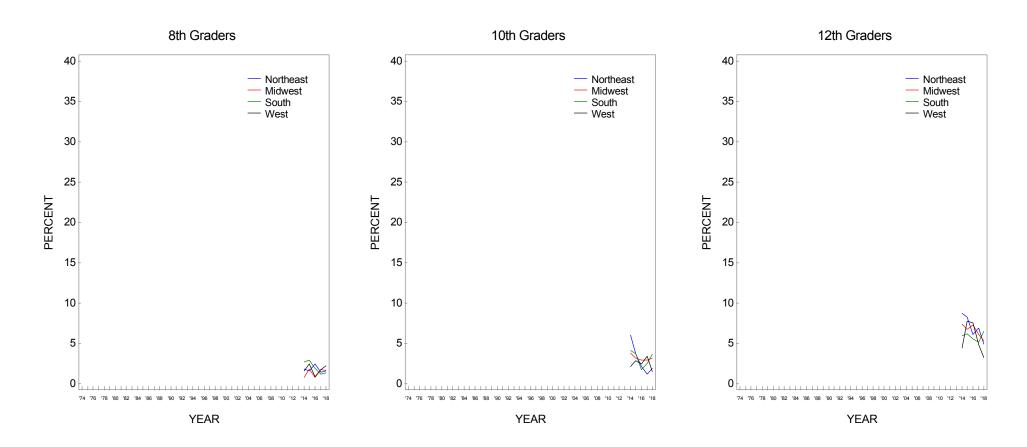


FIGURE 346
Large Cigars: Trends in 30-Day Prevalence by Population Density

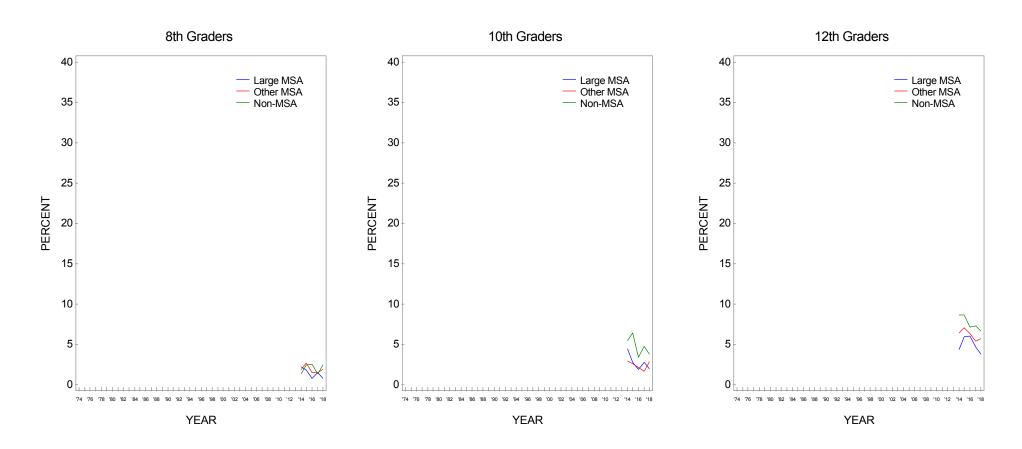
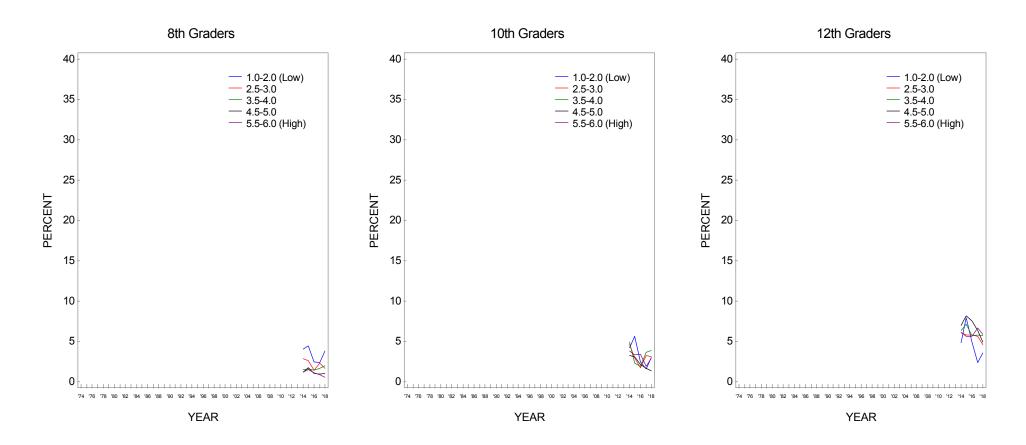
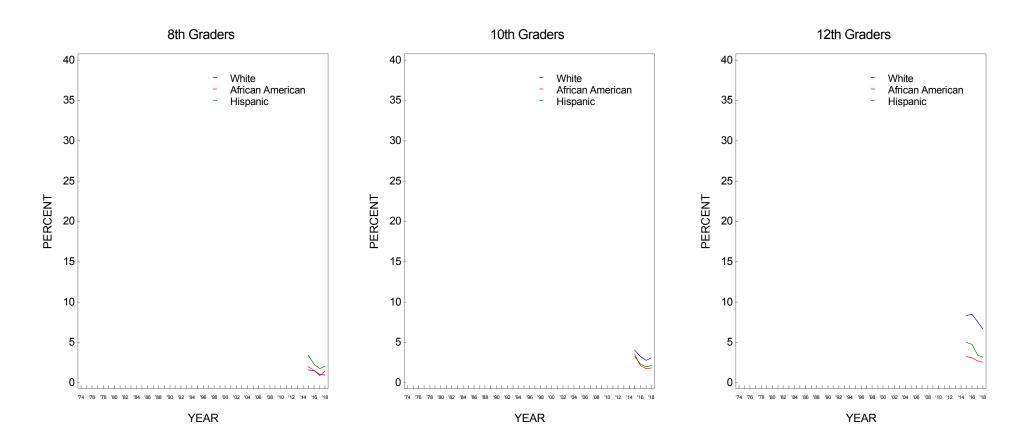


FIGURE 347
Large Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents\*



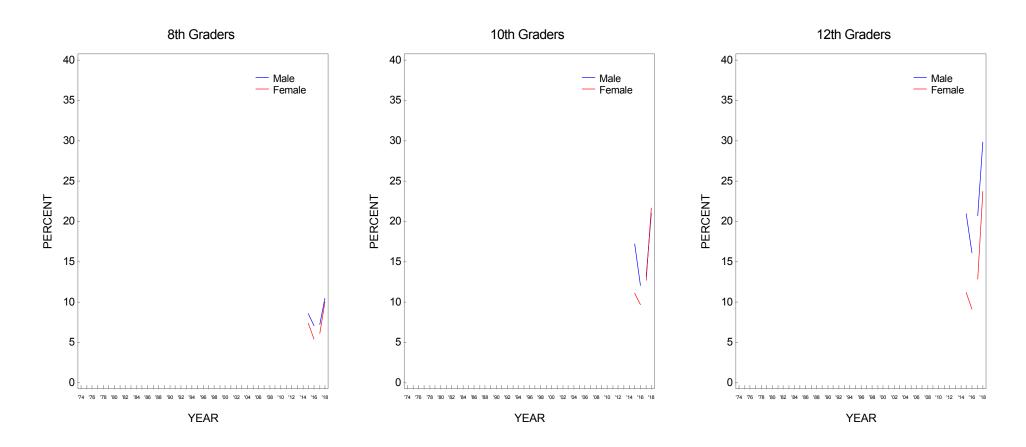
<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 348
Large Cigars: Trends in 30-Day Prevalence by Race/Ethnicity\*



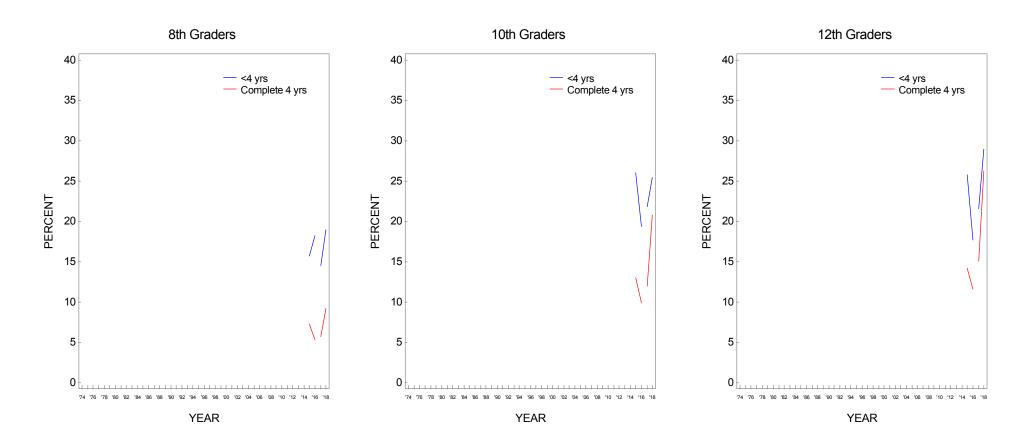
<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 349
Any Vaping\*: Trends in 30-Day Prevalence by Gender



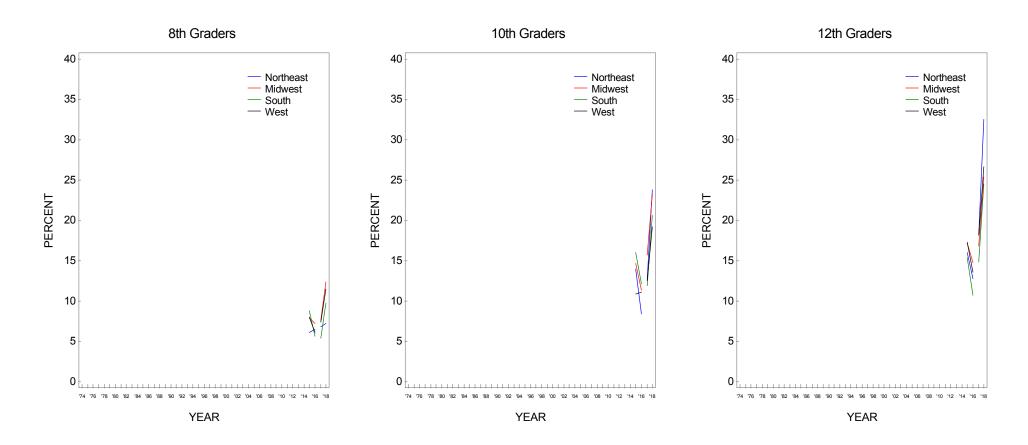
<sup>\*</sup>In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

FIGURE 350
Any Vaping\*: Trends in 30-Day Prevalence by College Plans



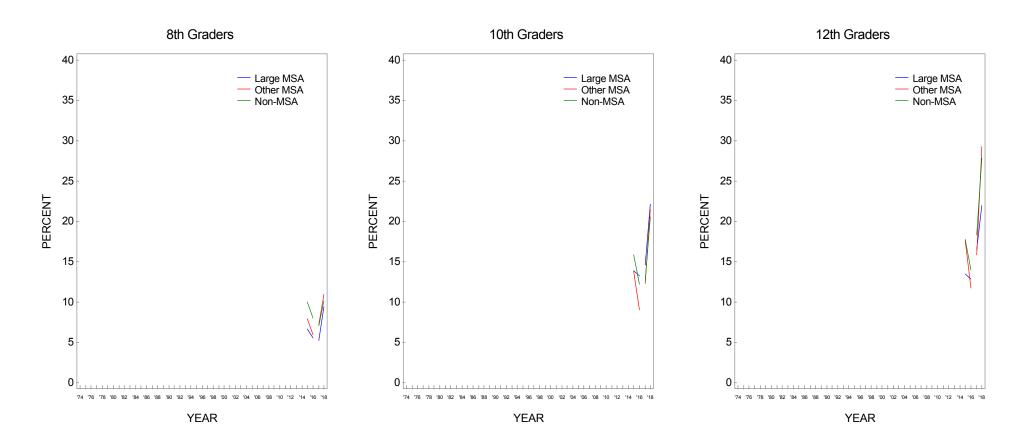
\*In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

FIGURE 351
Any Vaping\*: Trends in 30-Day Prevalence by Region



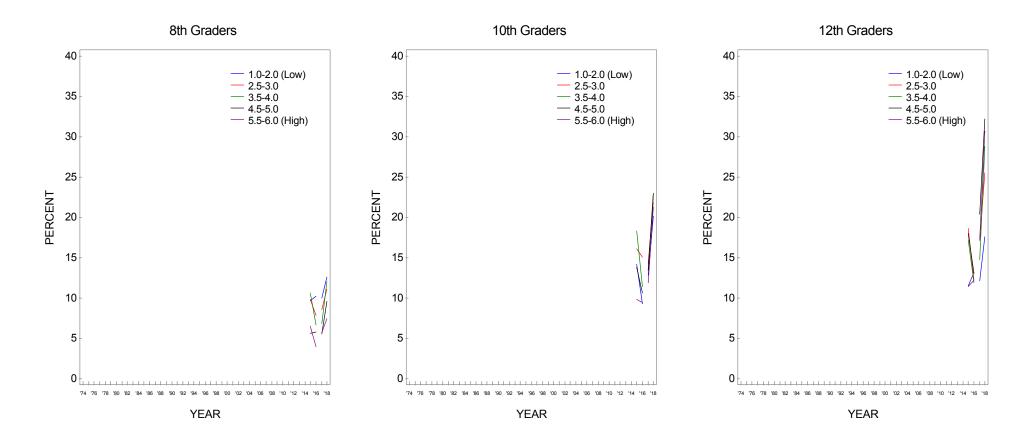
\*In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

FIGURE 352
Any Vaping\*: Trends in 30-Day Prevalence by Population Density



<sup>\*</sup>In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

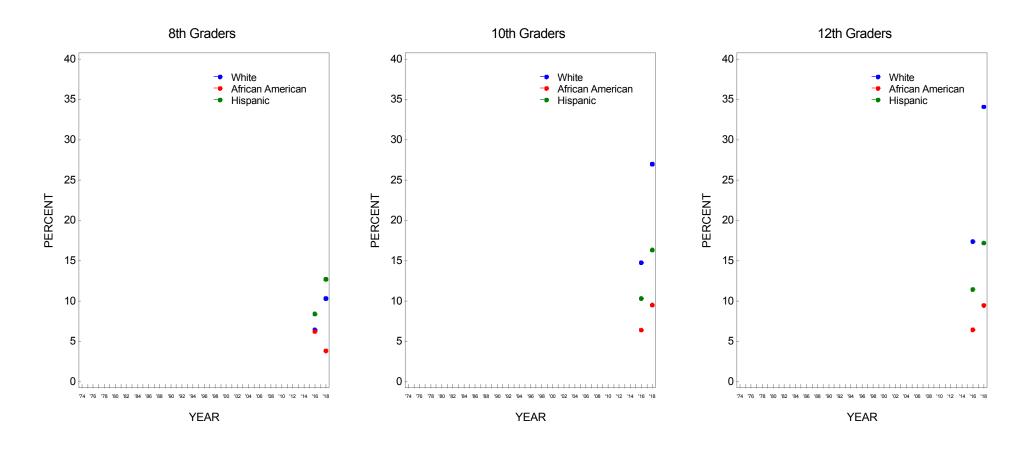
FIGURE 353
Any Vaping\*: Trends in 30-Day Prevalence by Average Education Level of Parents\*\*



<sup>\*</sup>In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

<sup>\*\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 354
Any Vaping\*: Trends in 30-Day Prevalence by Race/Ethnicity\*\*



<sup>\*</sup>In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and vaping just flavoring. Beginning in 2017, data presented are based on these new questions showing vaping of any of those substances.

<sup>\*\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 355
Vaping Nicotine: Trends in 30-Day Prevalence by Gender

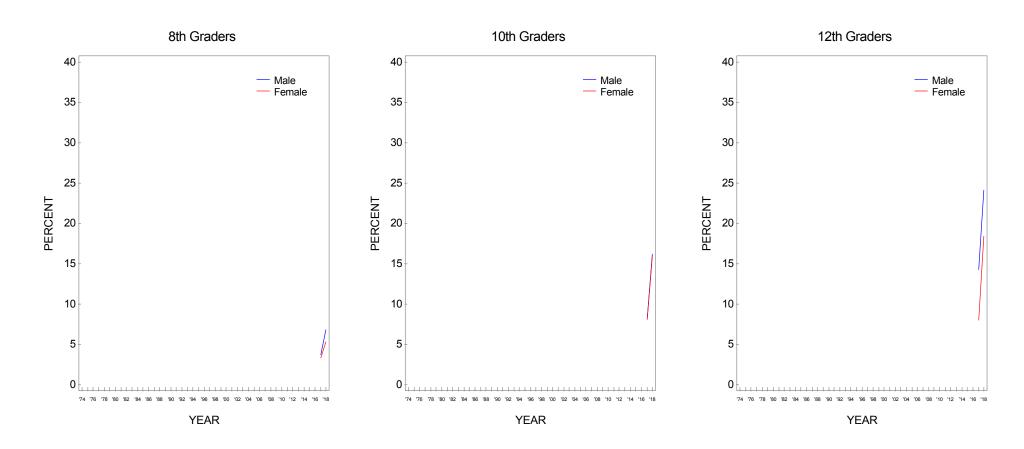


FIGURE 356
Vaping Nicotine: Trends in 30-Day Prevalence by College Plans

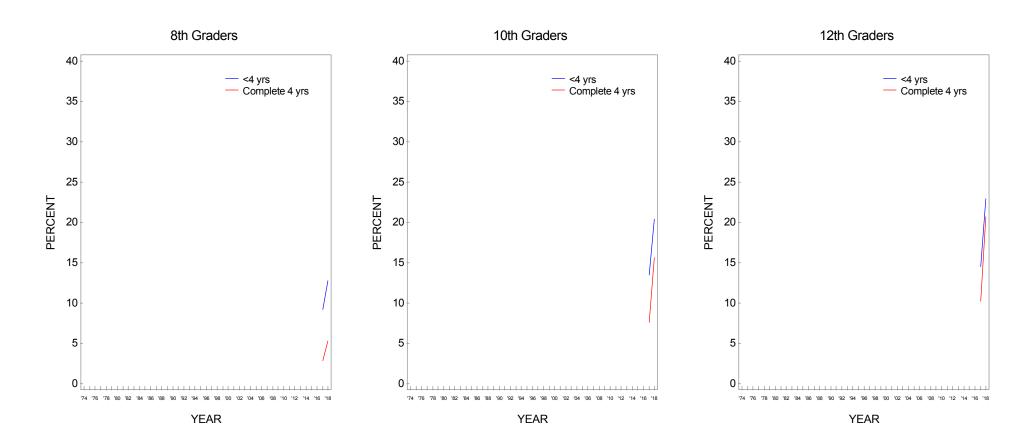


FIGURE 357
Vaping Nicotine: Trends in 30-Day Prevalence by Region

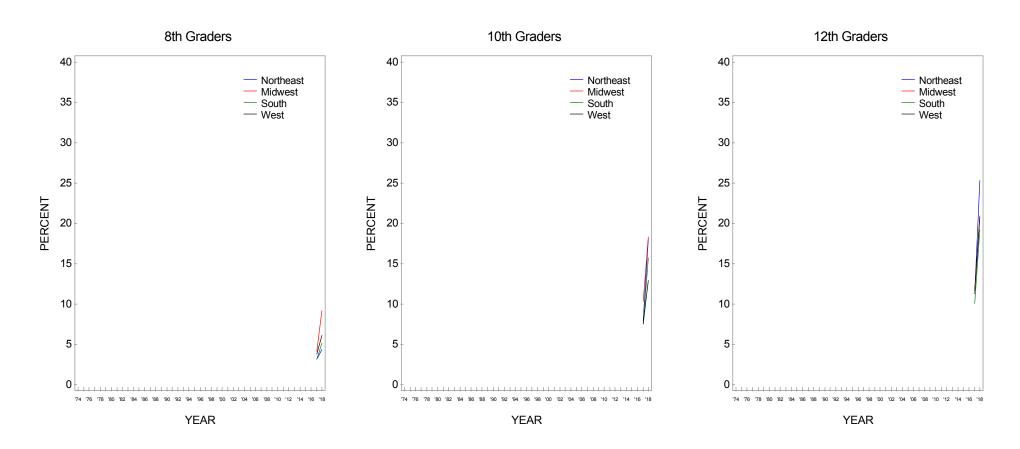


FIGURE 358
Vaping Nicotine: Trends in 30-Day Prevalence by Population Density

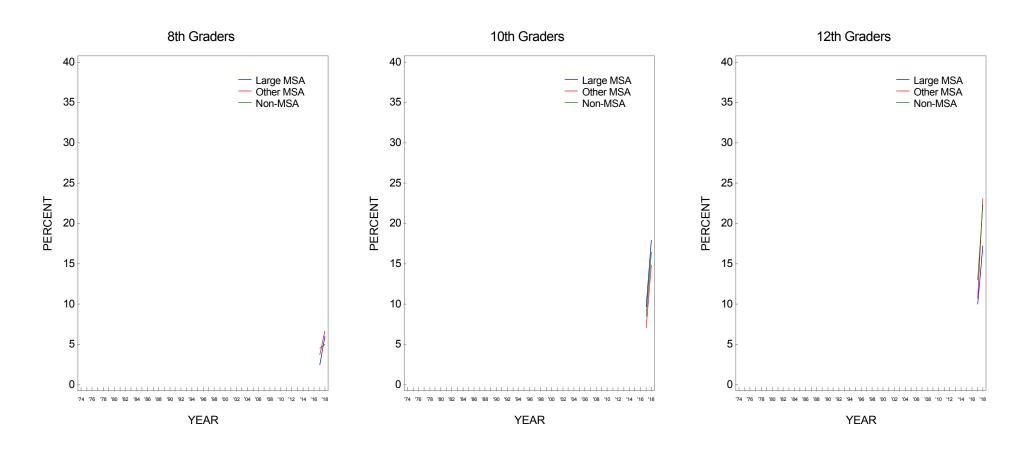
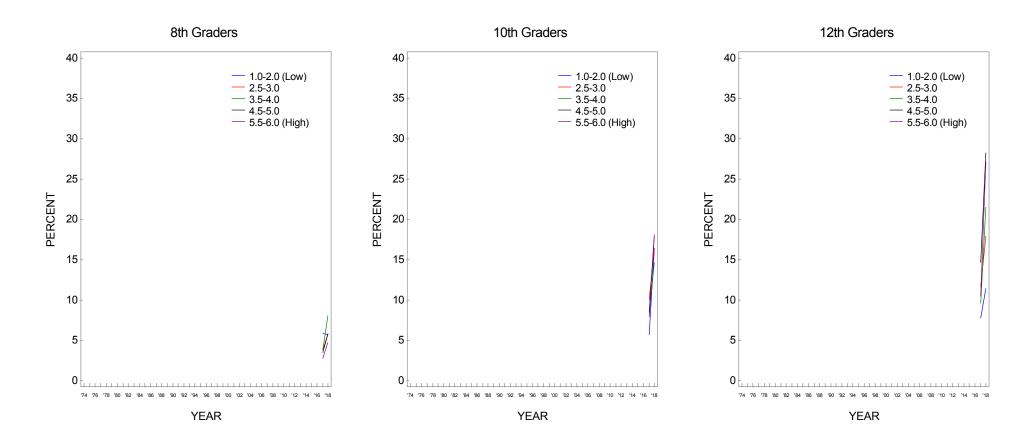
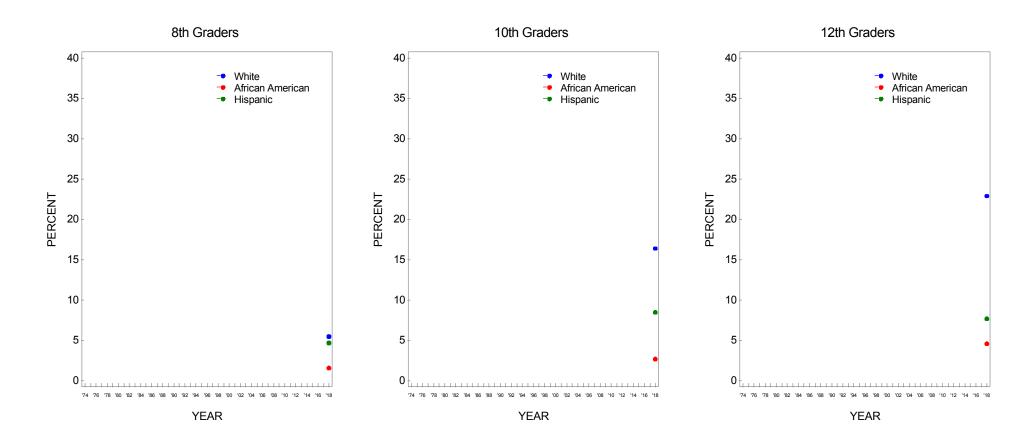


FIGURE 359
Vaping Nicotine: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 360
Vaping Nicotine: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 361 Vaping Marijuana: Trends in 30-Day Prevalence by Gender

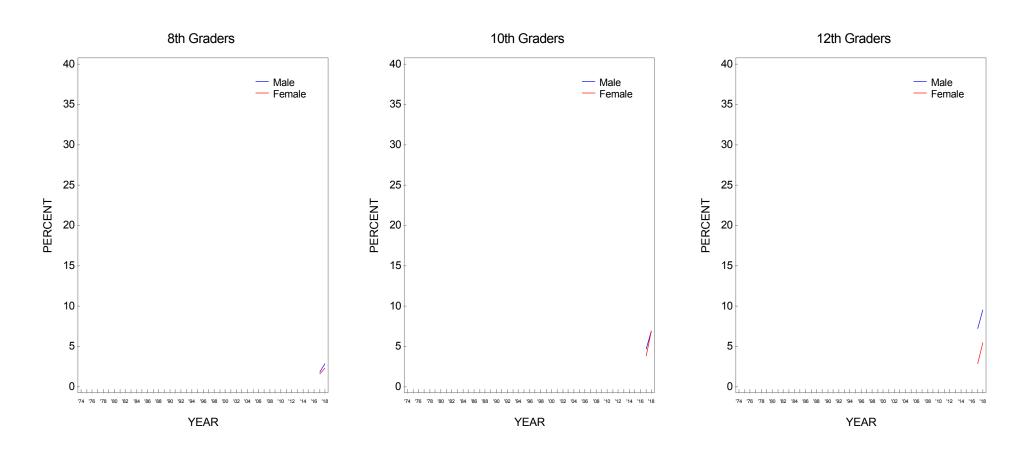


FIGURE 362 Vaping Marijuana: Trends in 30-Day Prevalence by College Plans

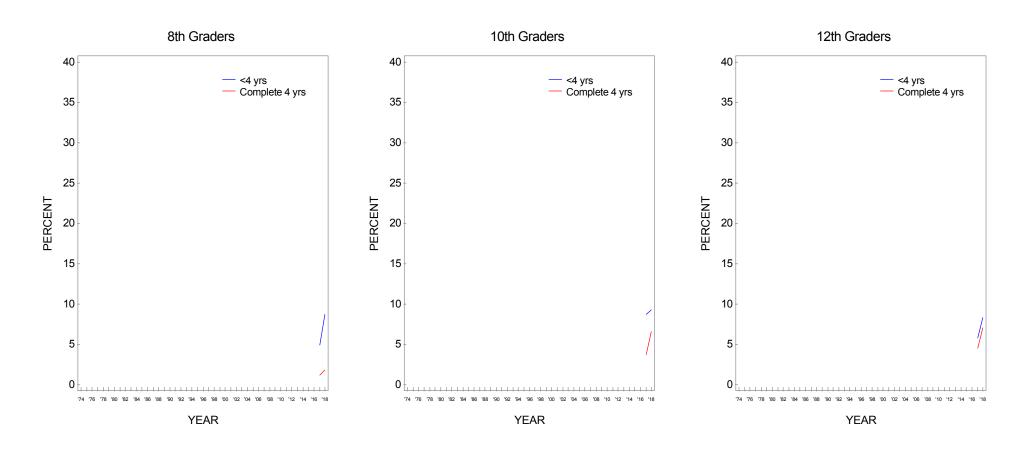


FIGURE 363 Vaping Marijuana: Trends in 30-Day Prevalence by Region

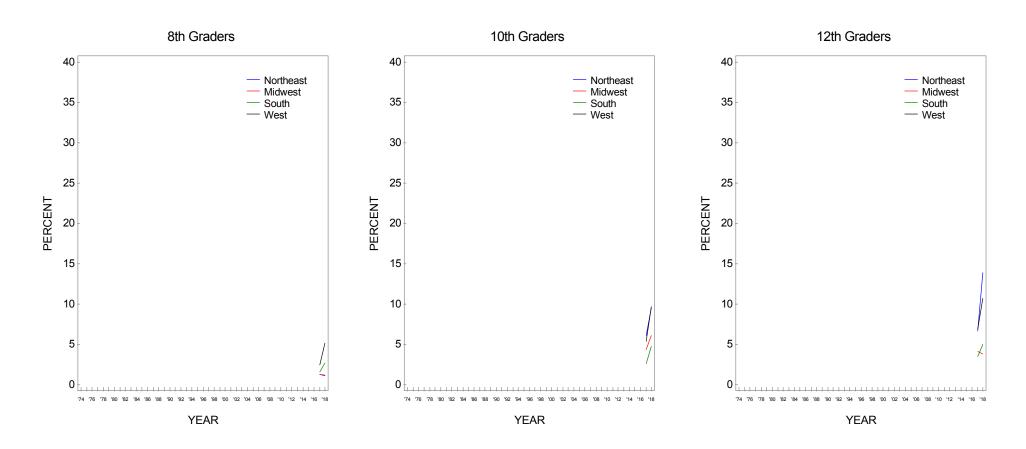


FIGURE 364
Vaping Marijuana: Trends in 30-Day Prevalence by Population Density

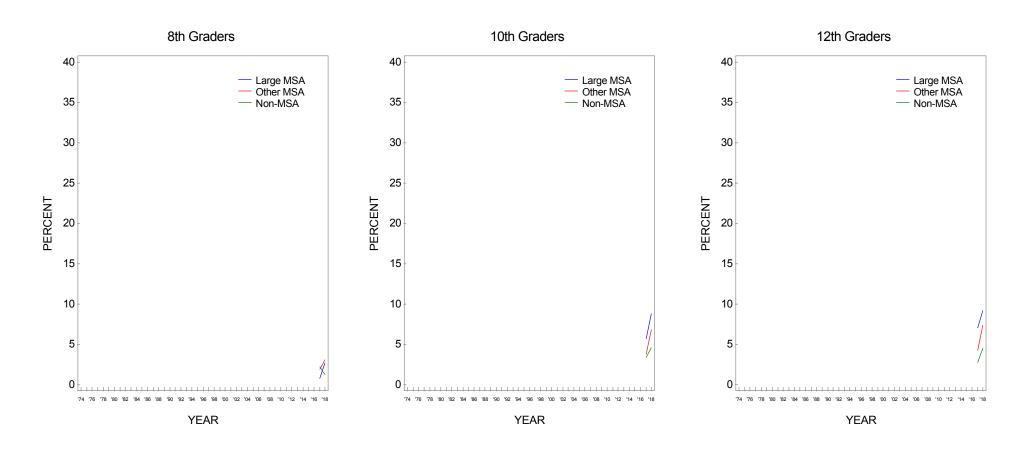
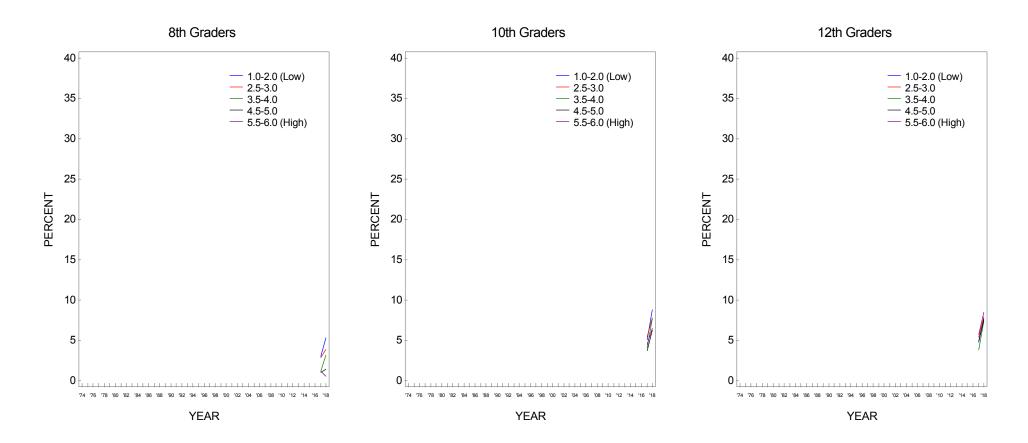
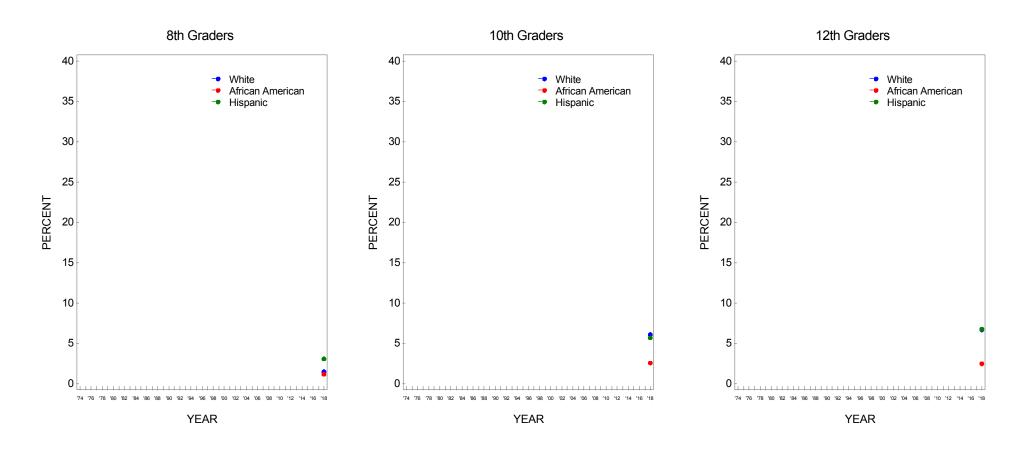


FIGURE 365
Vaping Marijuana: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 366
Vaping Marijuana: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 367
Vaping Just Flavoring: Trends in 30-Day Prevalence by Gender

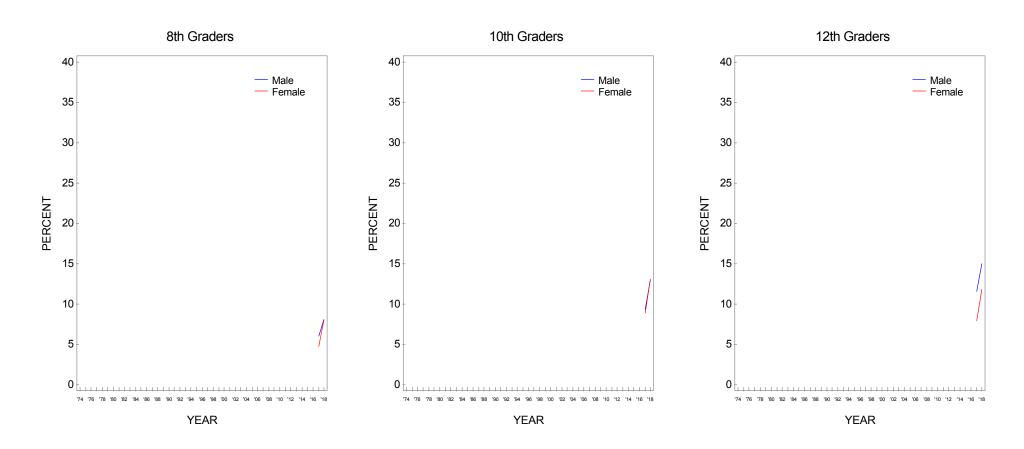


FIGURE 368
Vaping Just Flavoring: Trends in 30-Day Prevalence by College Plans

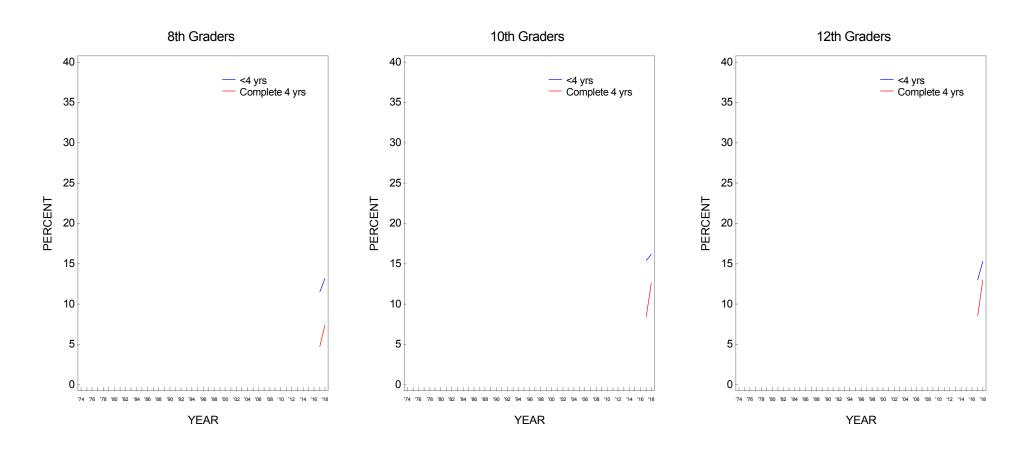


FIGURE 369
Vaping Just Flavoring: Trends in 30-Day Prevalence by Region

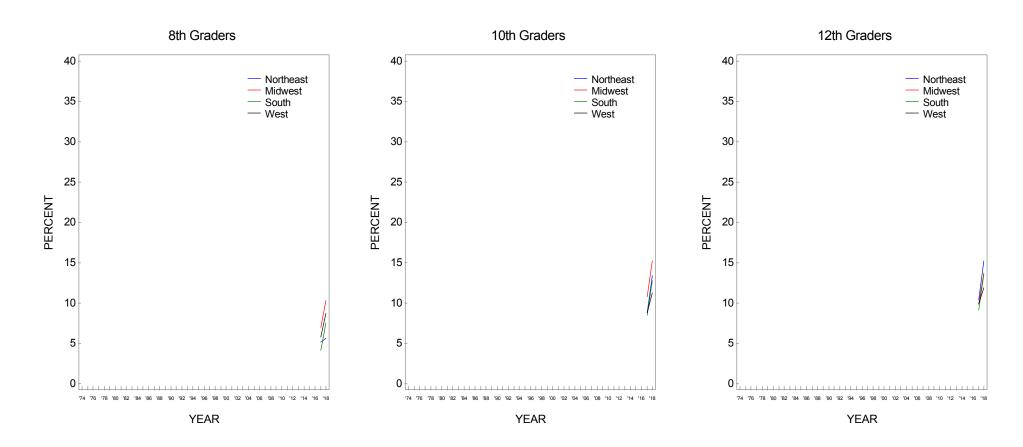


FIGURE 370
Vaping Just Flavoring: Trends in 30-Day Prevalence by Population Density

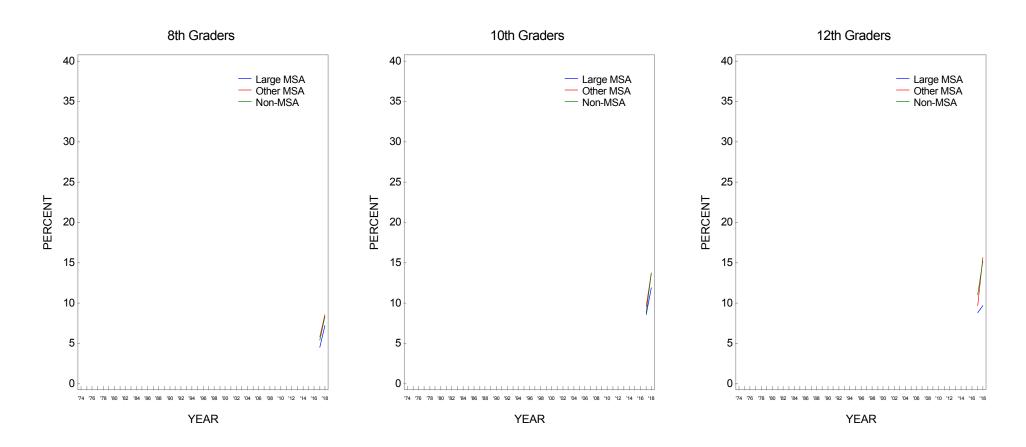
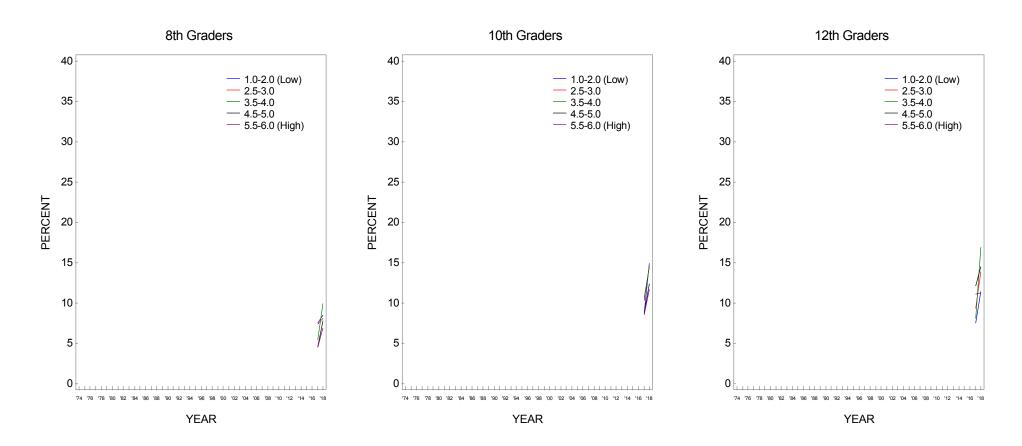
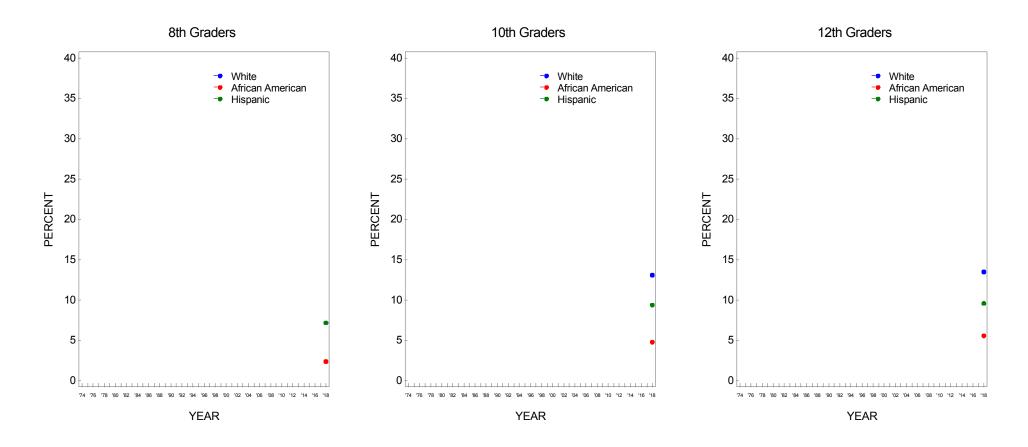


FIGURE 371
Vaping Just Flavoring: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 372
Vaping Just Flavoring: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 373 Smokeless Tobacco: Trends in 30-Day Prevalence by Gender

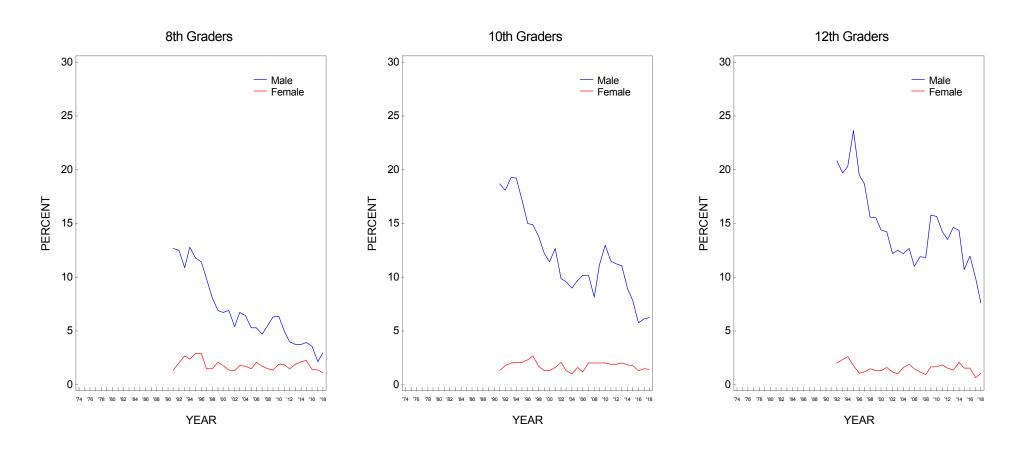


FIGURE 374 Smokeless Tobacco: Trends in 30-Day Prevalence by College Plans

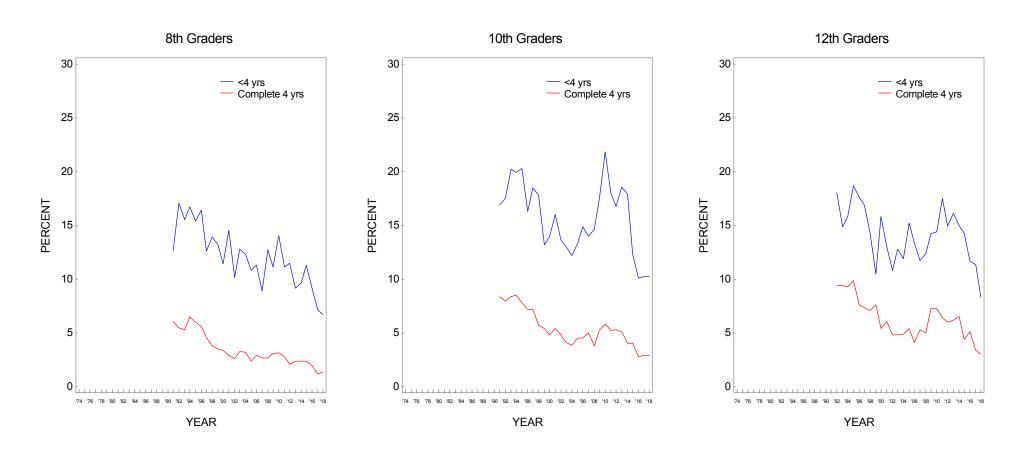


FIGURE 375 Smokeless Tobacco: Trends in 30-Day Prevalence by Region

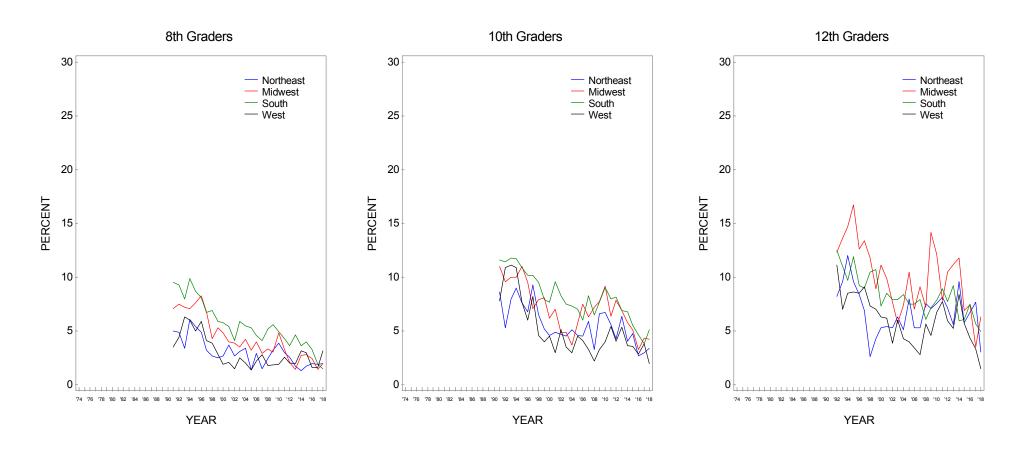


FIGURE 376
Smokeless Tobacco: Trends in 30-Day Prevalence by Population Density

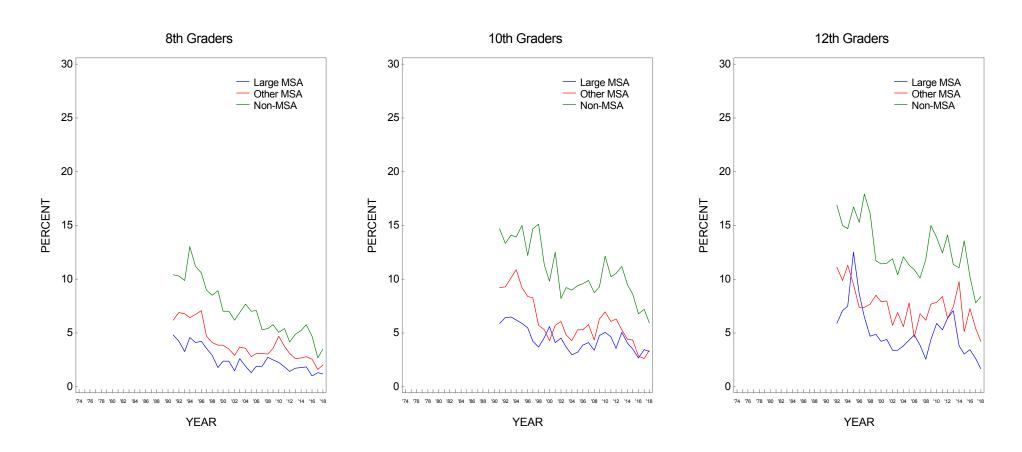
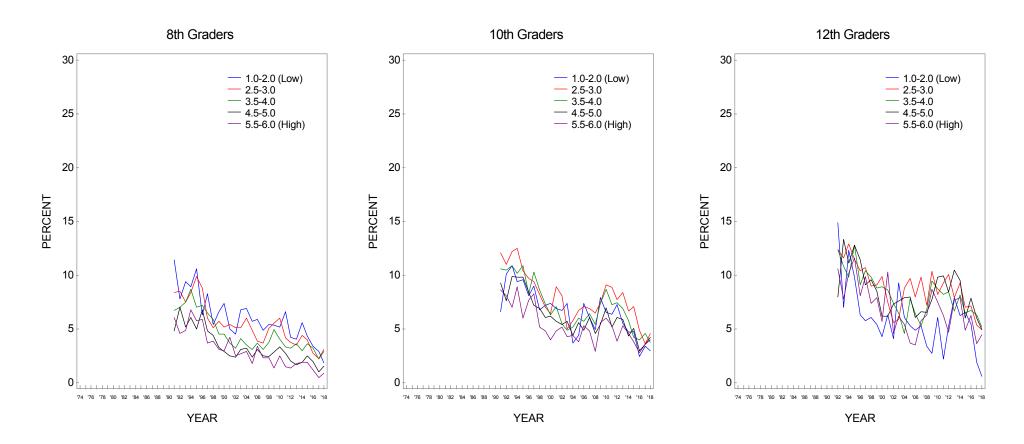
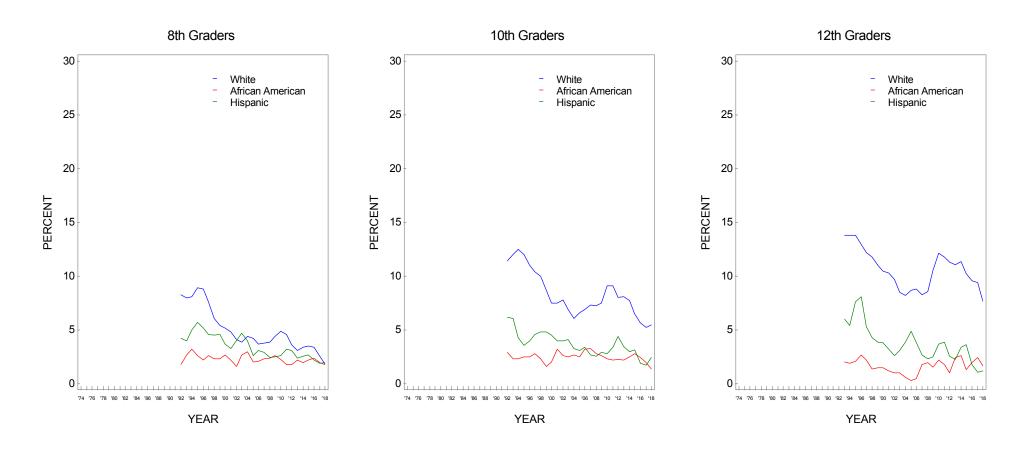


FIGURE 377
Smokeless Tobacco: Trends in 30-Day Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 378
Smokeless Tobacco: Trends in 30-Day Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 379 Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Gender

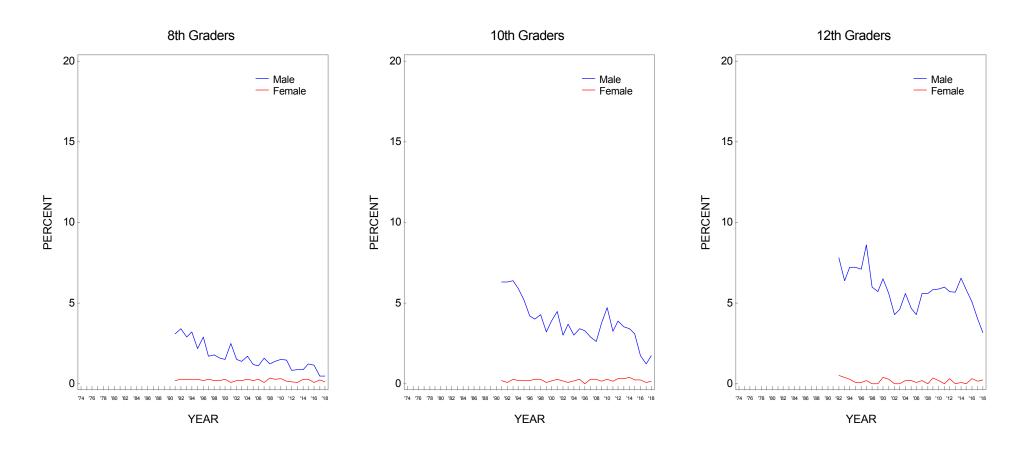


FIGURE 380 Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by College Plans

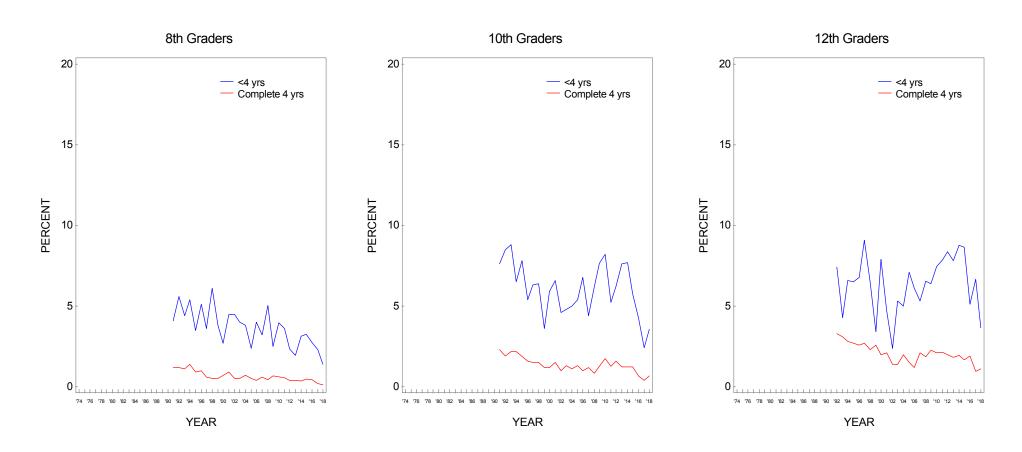


FIGURE 381
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Region

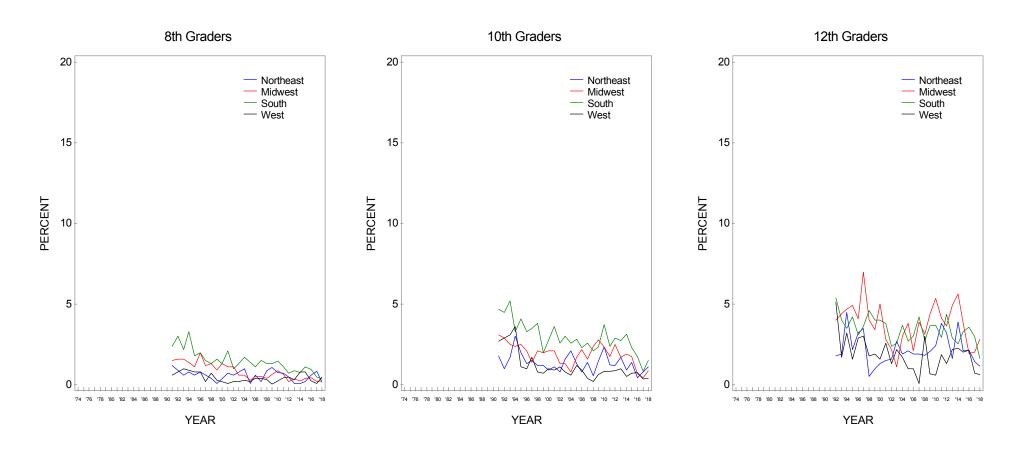


FIGURE 382 Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Population Density

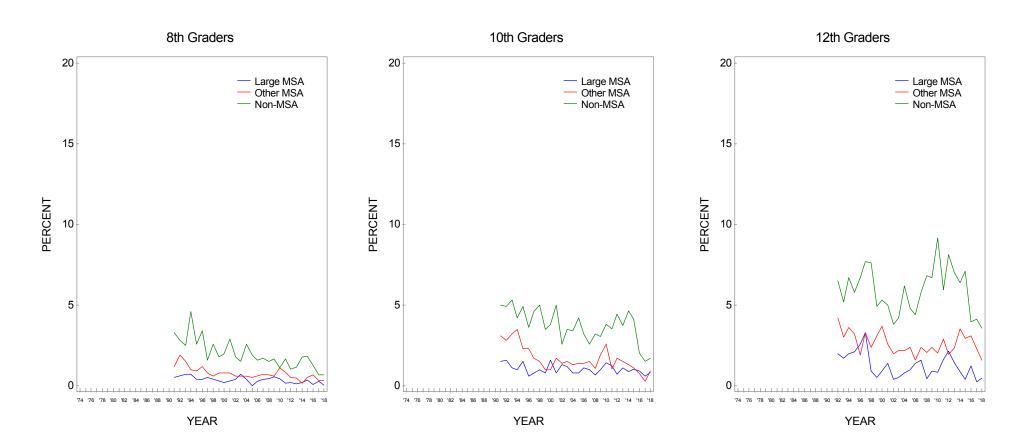
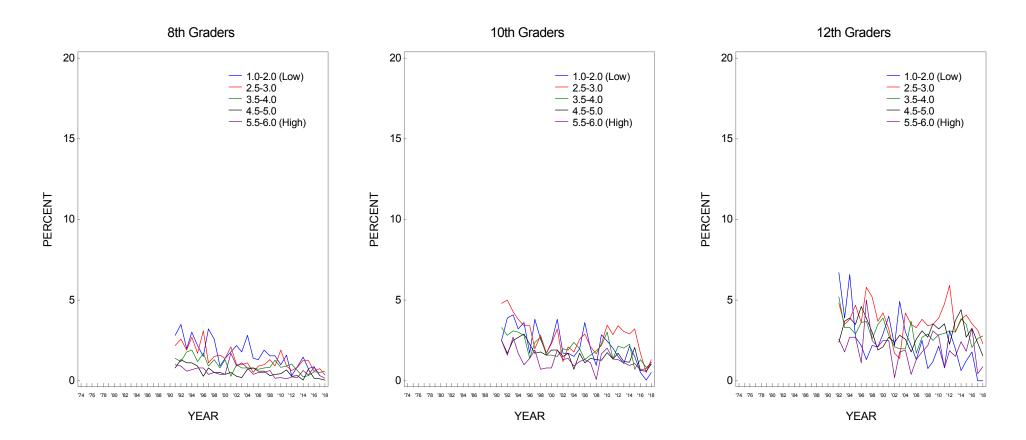
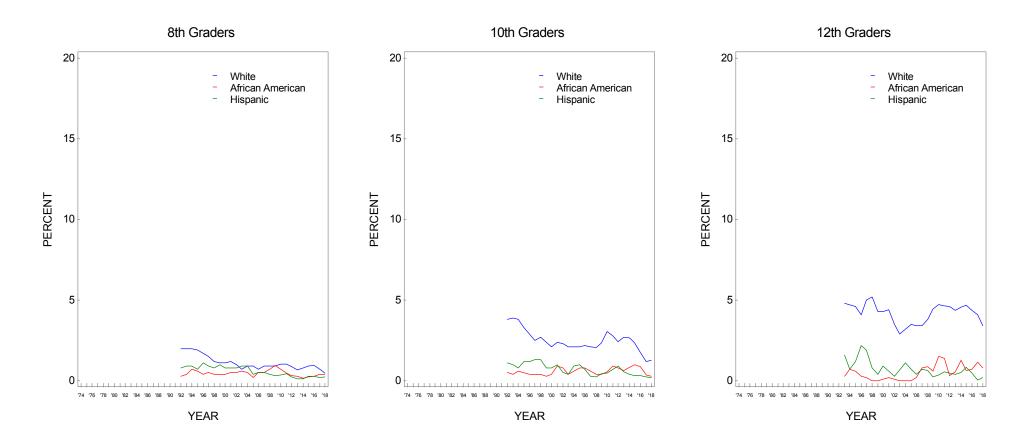


FIGURE 383
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 384
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 385
Dissolvable Tobacco Products: Trends in Annual Prevalence by Gender

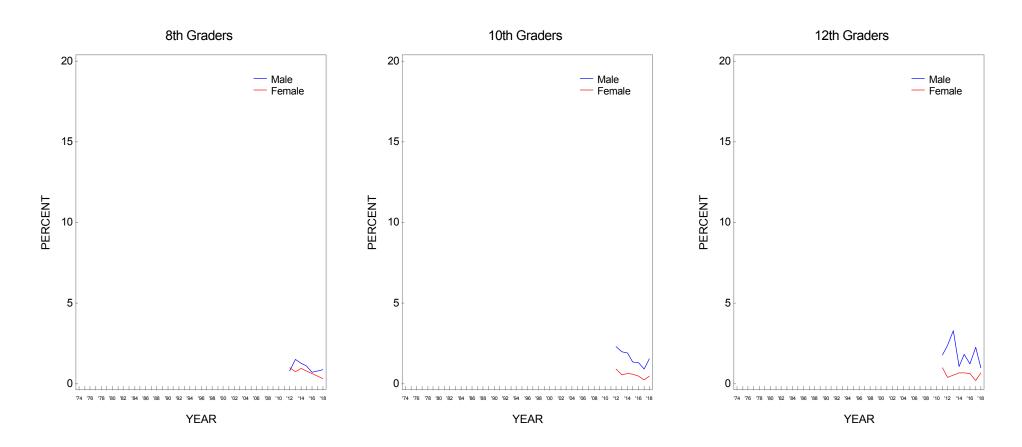


FIGURE 386
Dissolvable Tobacco Products: Trends in Annual Prevalence by College Plans

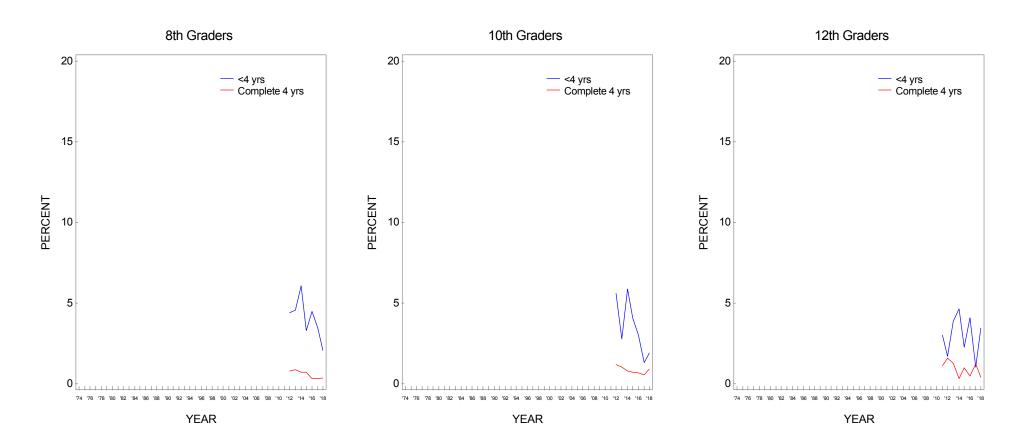


FIGURE 387
Dissolvable Tobacco Products: Trends in Annual Prevalence by Region

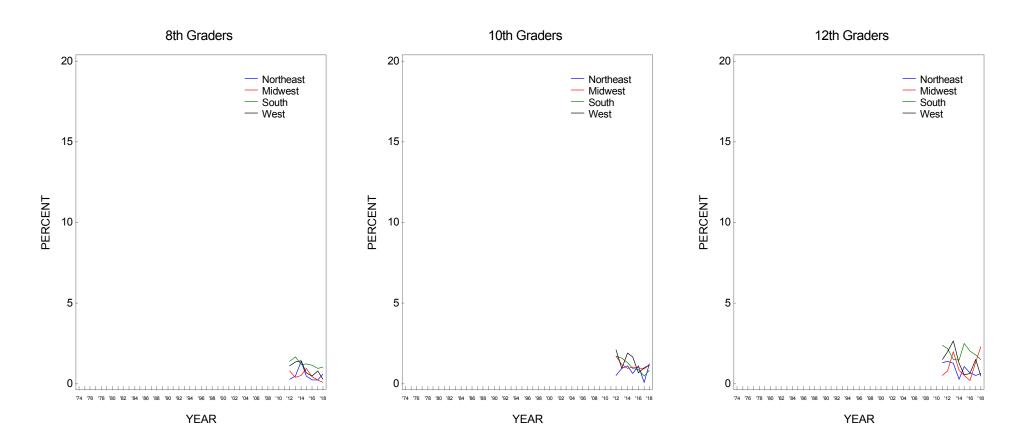


FIGURE 388
Dissolvable Tobacco Products: Trends in Annual Prevalence by Population Density

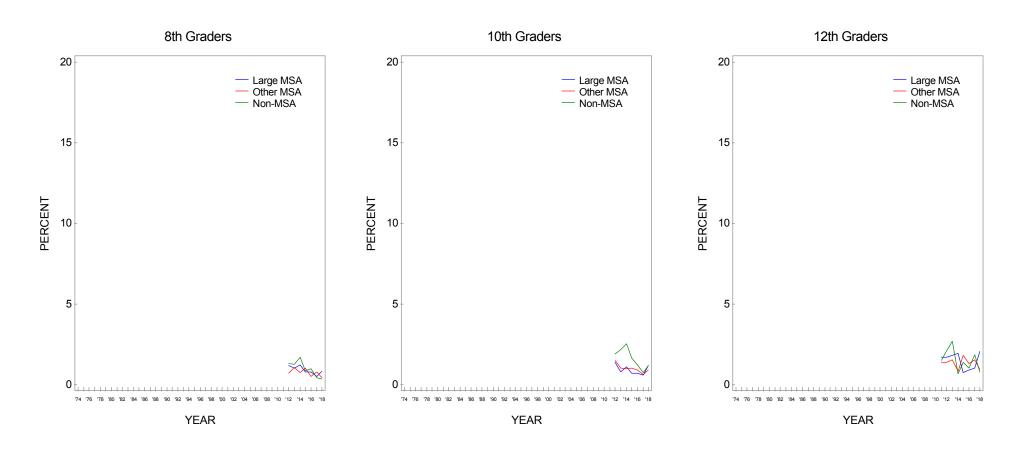
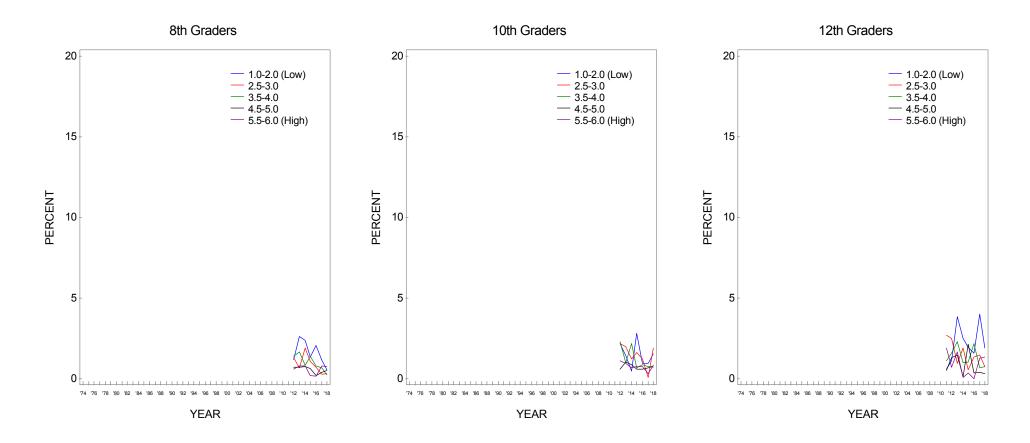
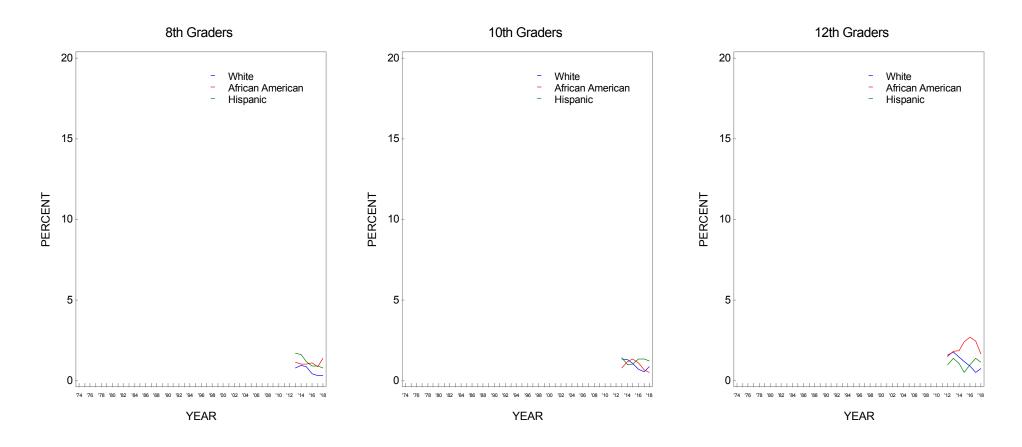


FIGURE 389
Dissolvable Tobacco Products: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 390
Dissolvable Tobacco Products: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 391 Snus: Trends in Annual Prevalence by Gender

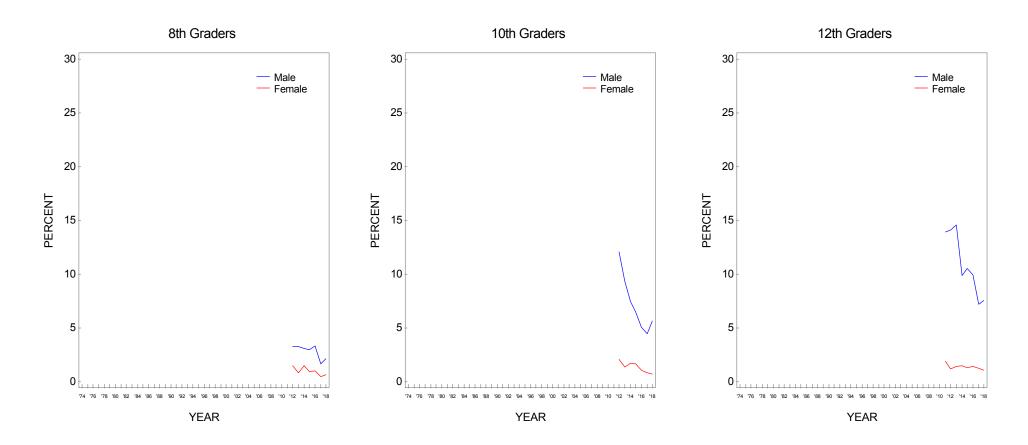


FIGURE 392 Snus: Trends in Annual Prevalence by College Plans

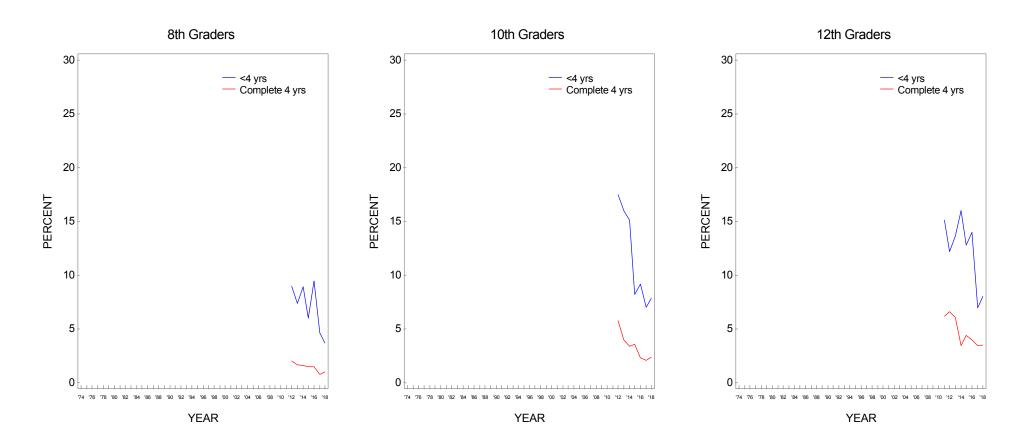


FIGURE 393 Snus: Trends in Annual Prevalence by Region

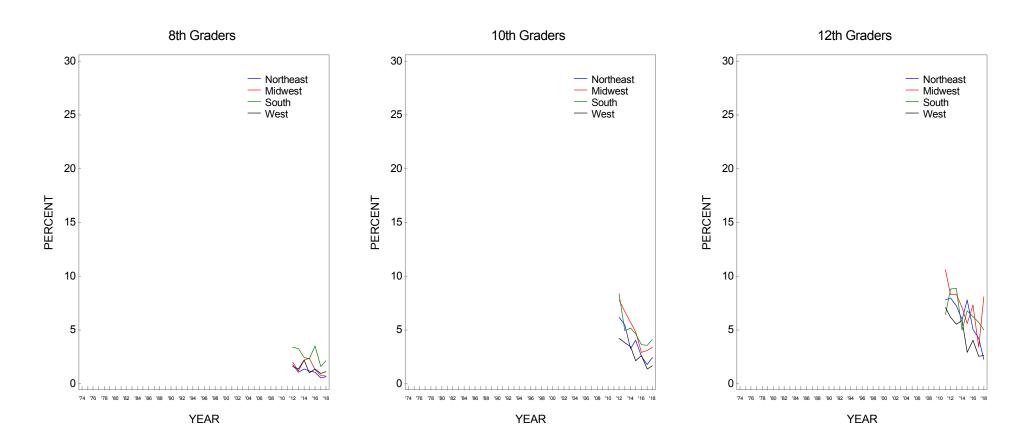


FIGURE 394
Snus: Trends in Annual Prevalence by Population Density

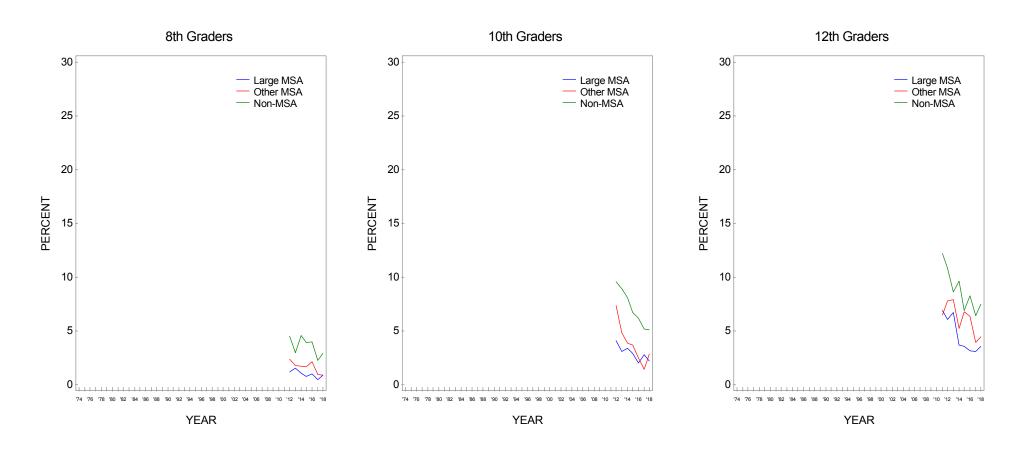
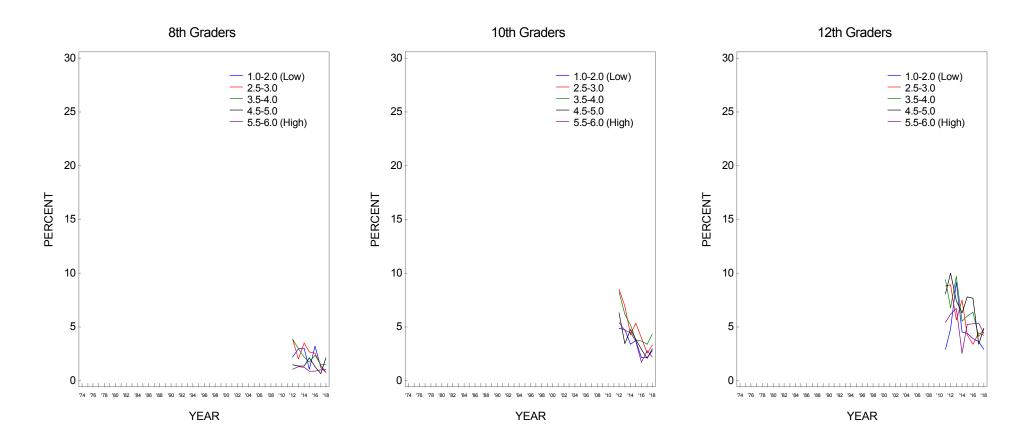
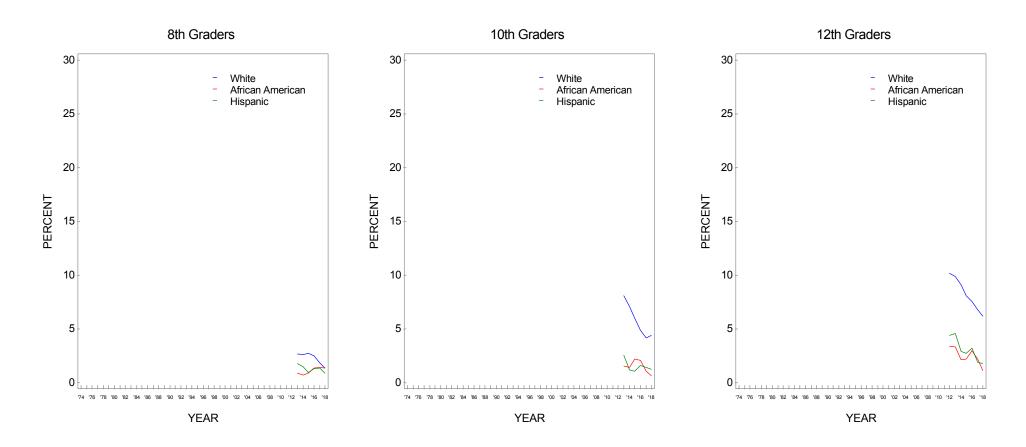


FIGURE 395
Snus: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 396
Snus: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 397 Steroids: Trends in Annual Prevalence by Gender

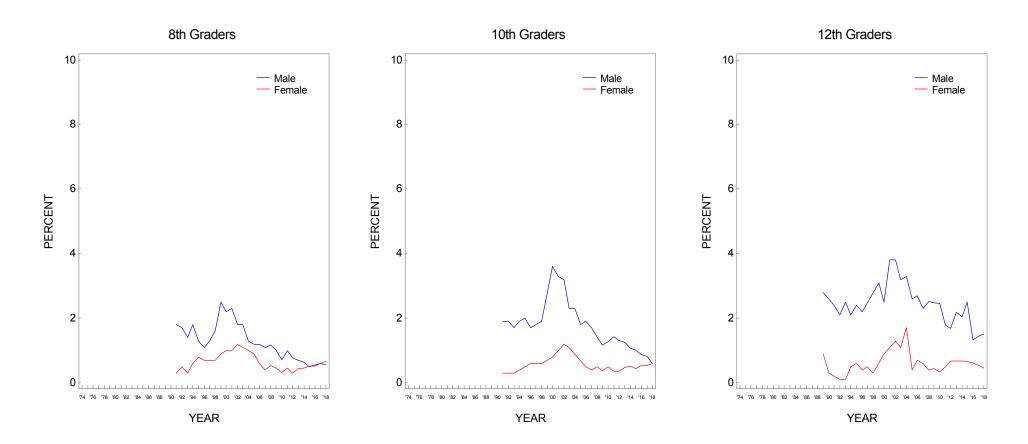


FIGURE 398 Steroids: Trends in Annual Prevalence by College Plans

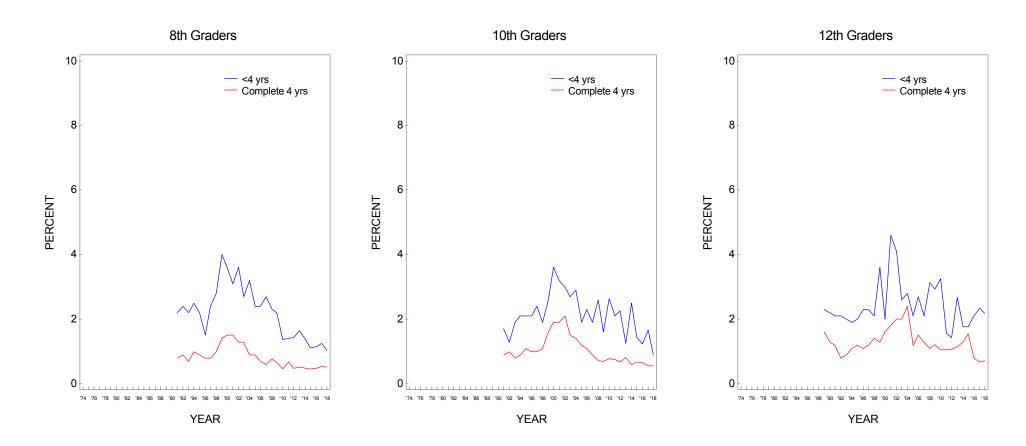


FIGURE 399 Steroids: Trends in Annual Prevalence by Region

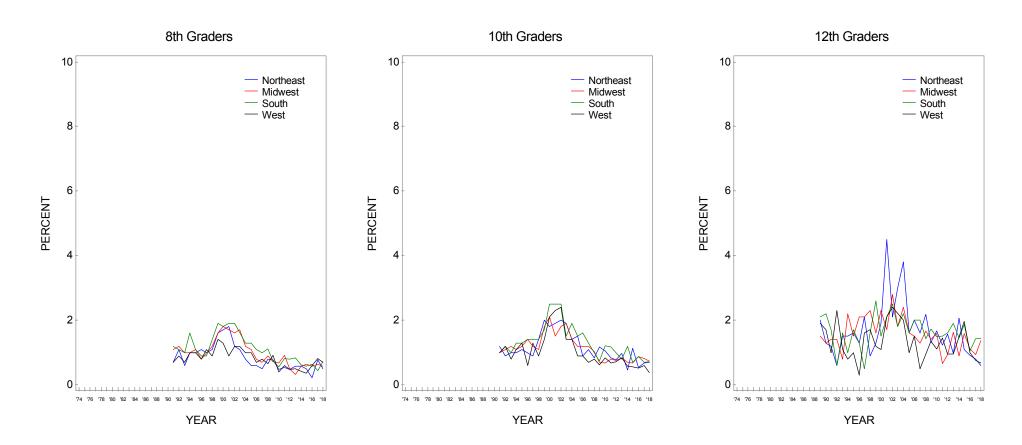


FIGURE 400 Steroids: Trends in Annual Prevalence by Population Density

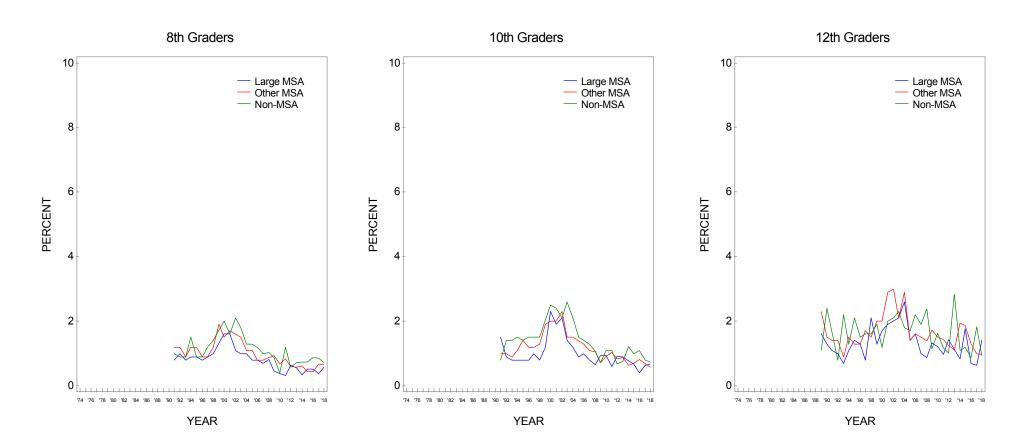
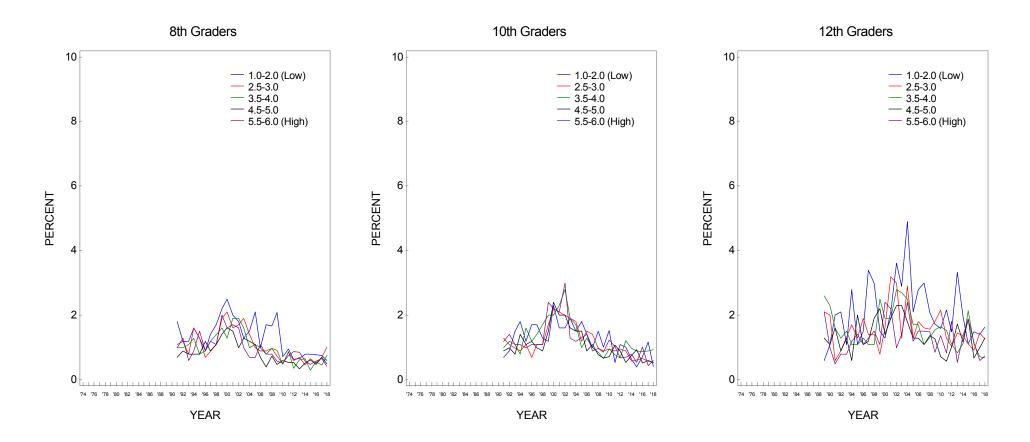
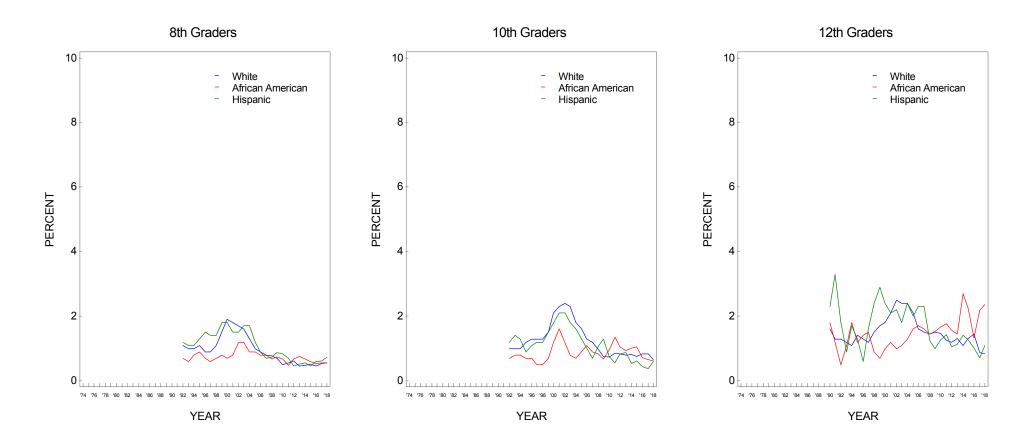


FIGURE 401
Steroids: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 402 Steroids: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 403 Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by Gender

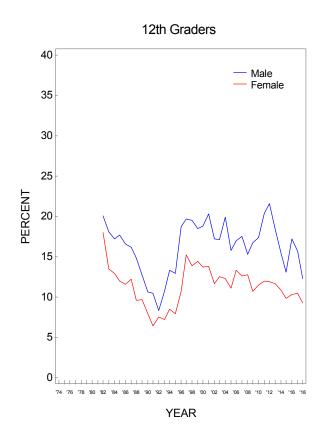


FIGURE 404 Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by College Plans

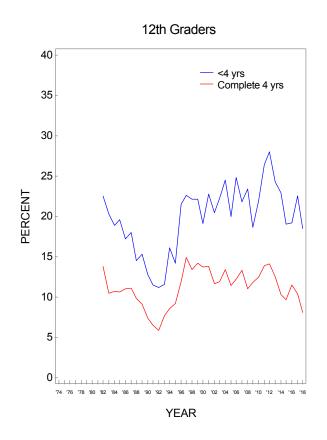


FIGURE 405
Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by Region

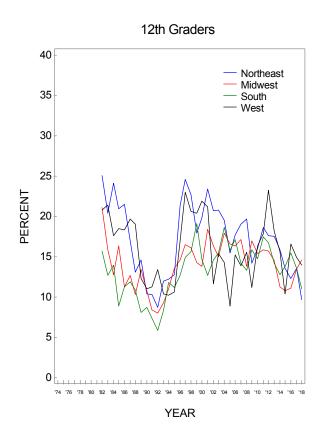


FIGURE 406
Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by Population Density

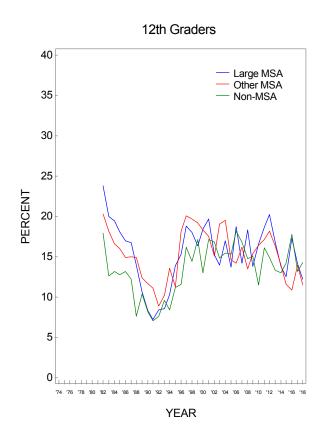
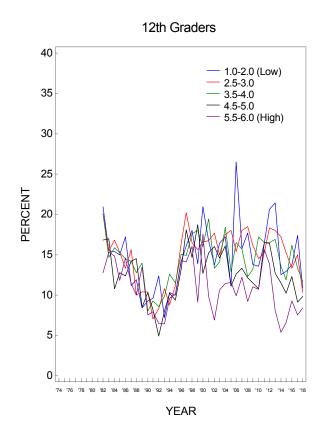
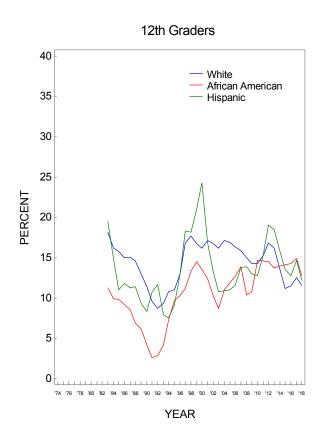


FIGURE 407
Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 408
Marijuana: Trends in Lifetime Prevalence of Daily Use for Month or More by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 409 Nonprescription Diet Pills: Trends in Annual Prevalence by Gender

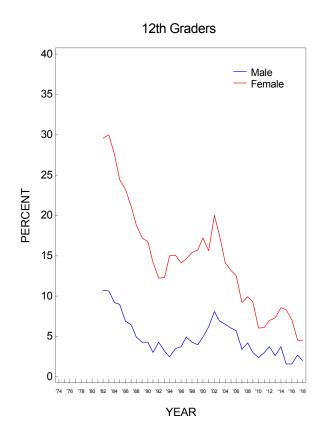


FIGURE 410 Nonprescription Diet Pills: Trends in Annual Prevalence by College Plans

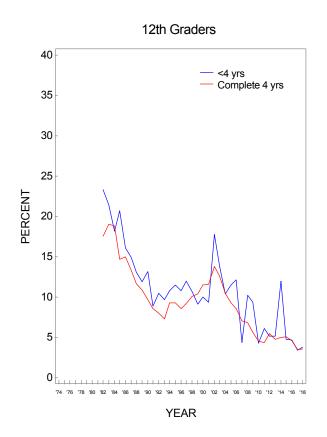


FIGURE 411 Nonprescription Diet Pills: Trends in Annual Prevalence by Region

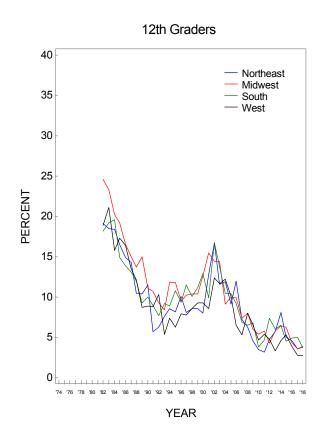


FIGURE 412 Nonprescription Diet Pills: Trends in Annual Prevalence by Population Density

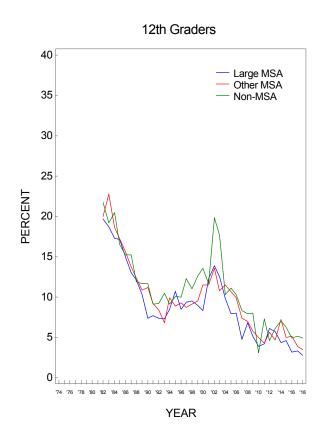
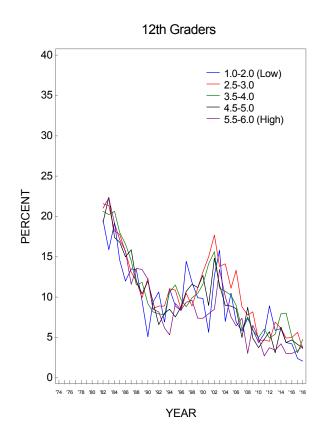
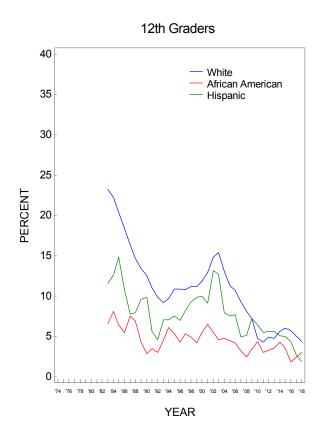


FIGURE 413
Nonprescription Diet Pills: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 414
Nonprescription Diet Pills: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 415 Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by Gender

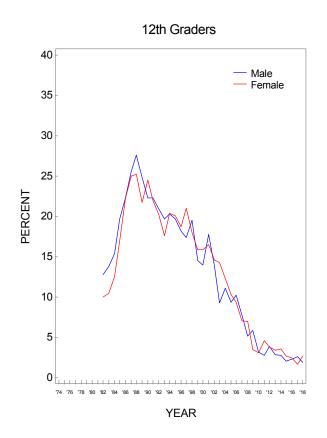


FIGURE 416 Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by College Plans

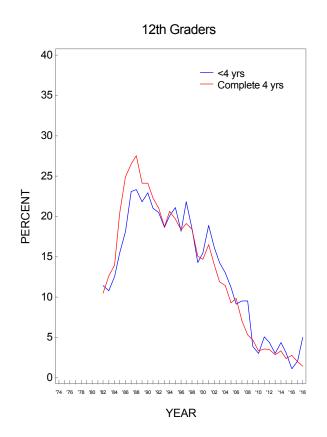


FIGURE 417 Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by Region

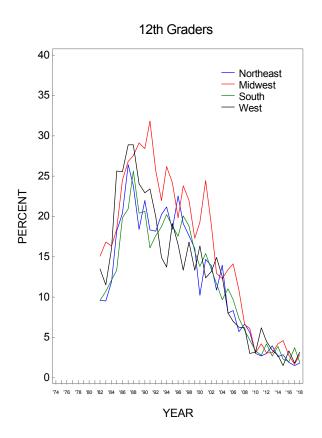


FIGURE 418
Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by Population Density

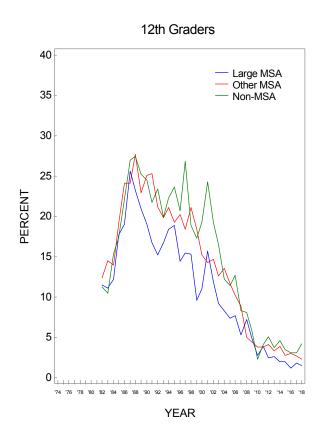
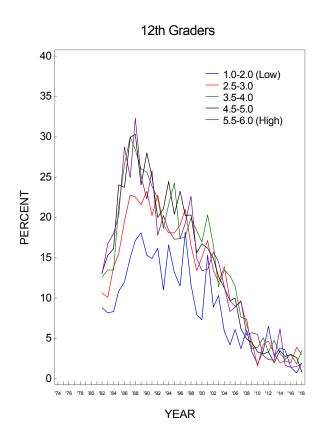
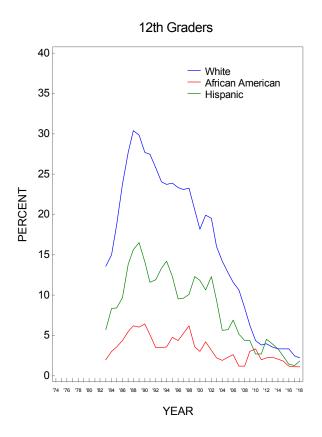


FIGURE 419
Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 420
Nonprescription Stay-Awake Pills: Trends in Annual Prevalence by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 421 Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Gender

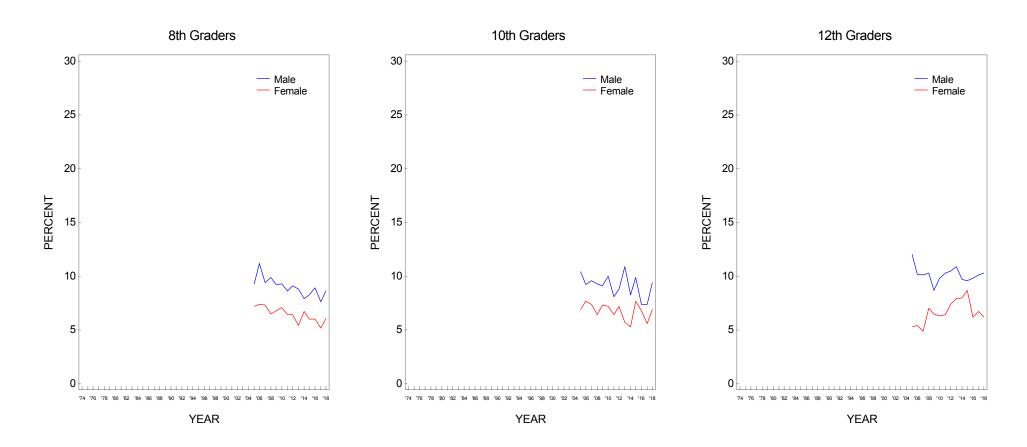


FIGURE 422
Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by College Plans

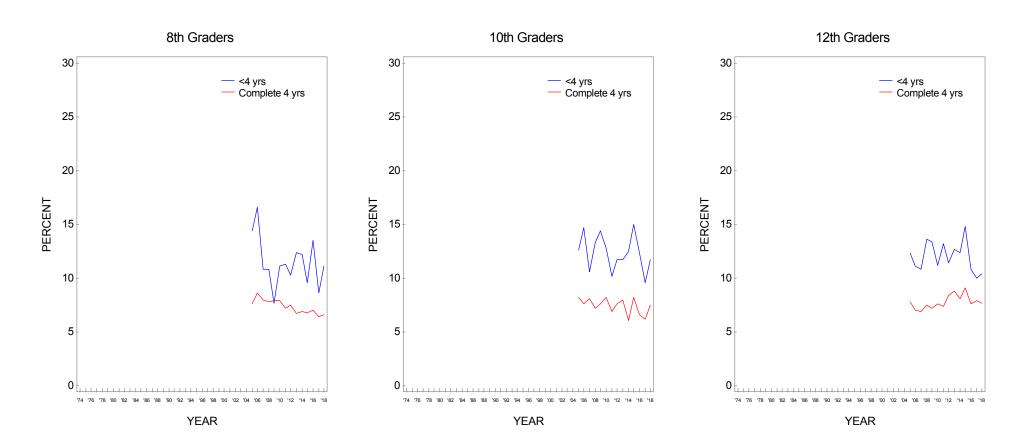


FIGURE 423
Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Region

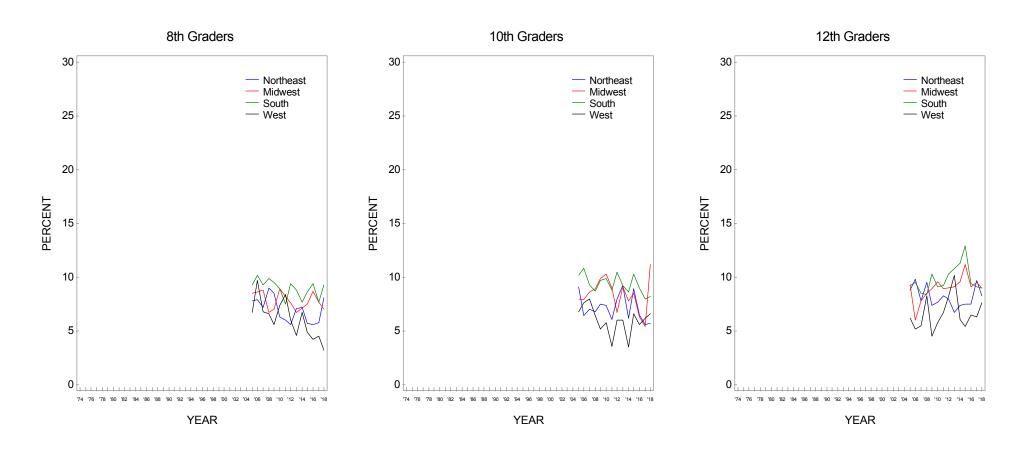


FIGURE 424
Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Population Density

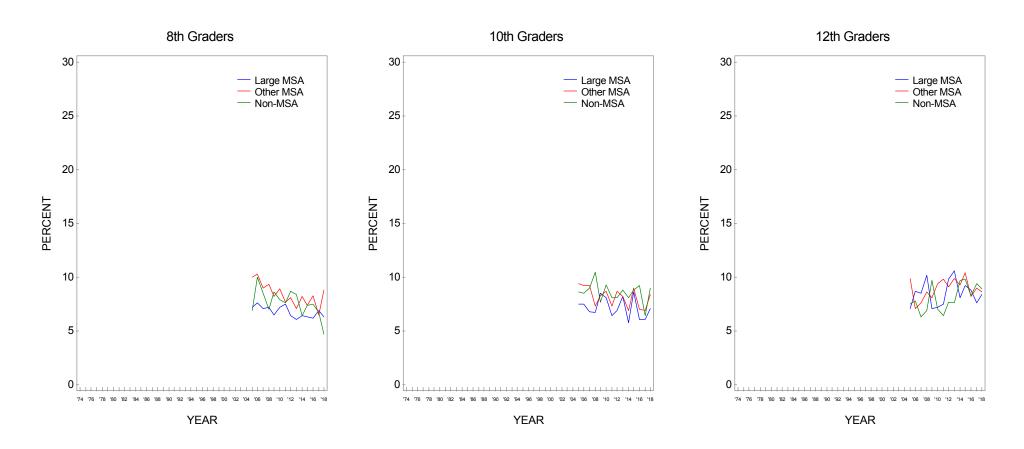
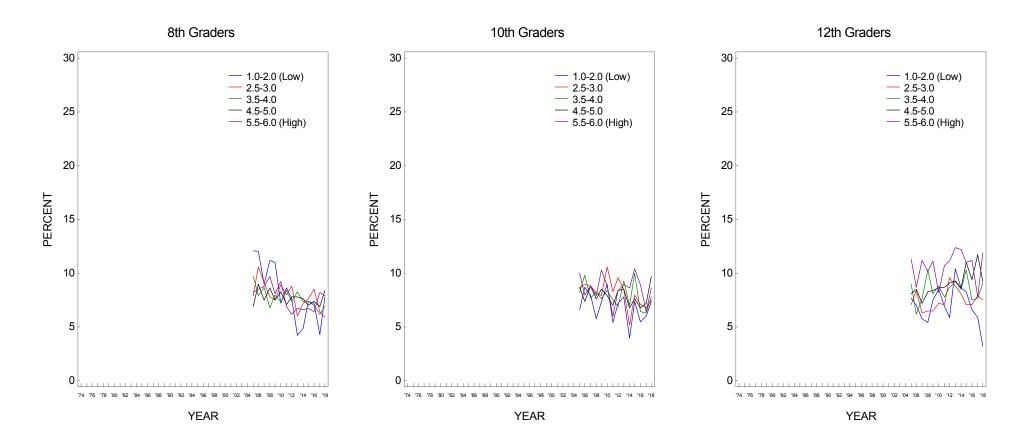
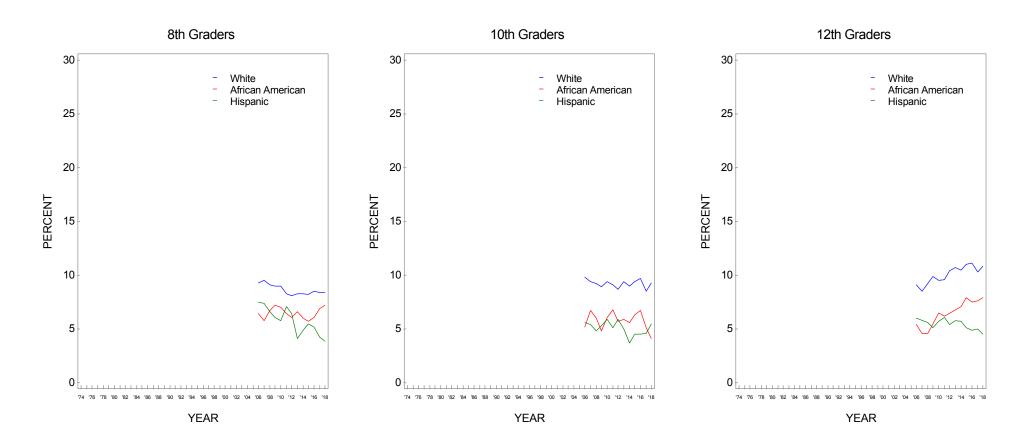


FIGURE 425
Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 426
Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 427 Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Gender

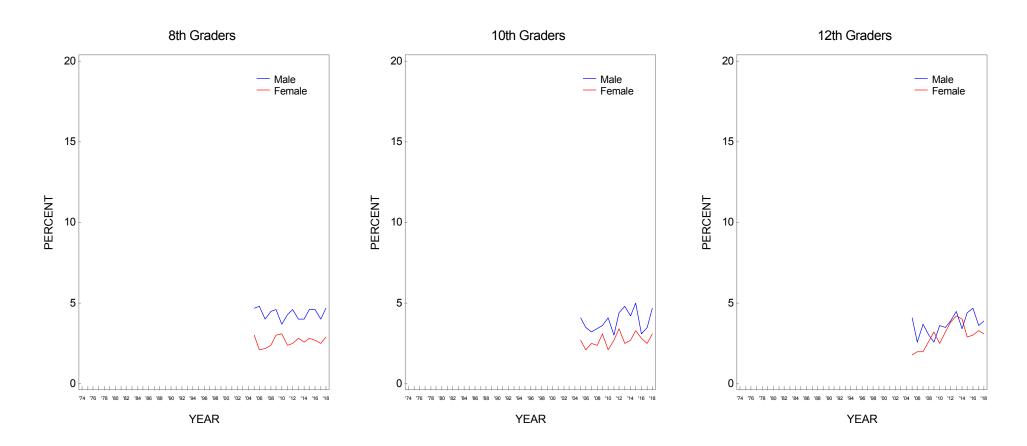


FIGURE 428 Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by College Plans

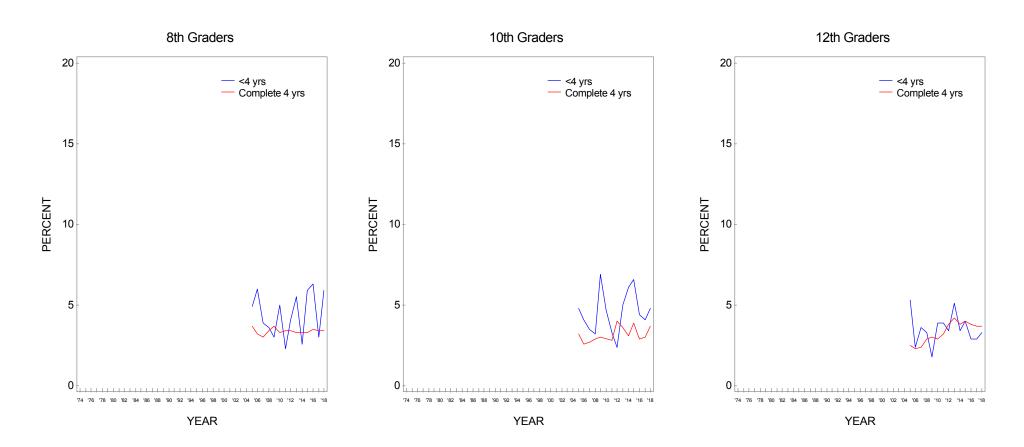


FIGURE 429
Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Region

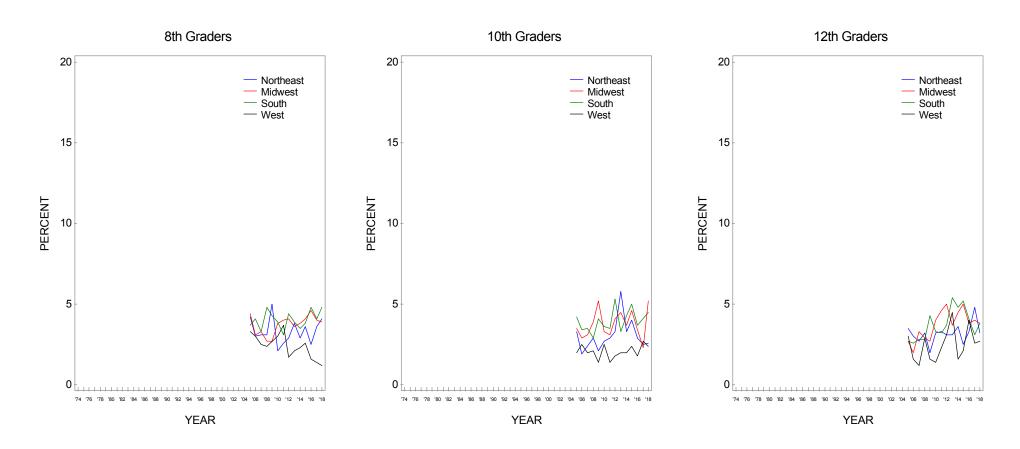


FIGURE 430
Stimulant-Type ADHD Drugs: Trends in Curent Prevalence of Legal Use by Population Density

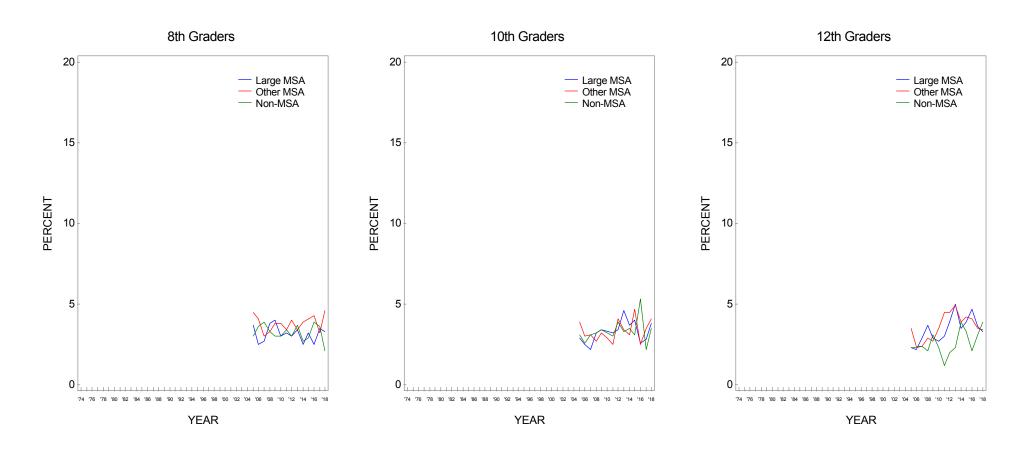
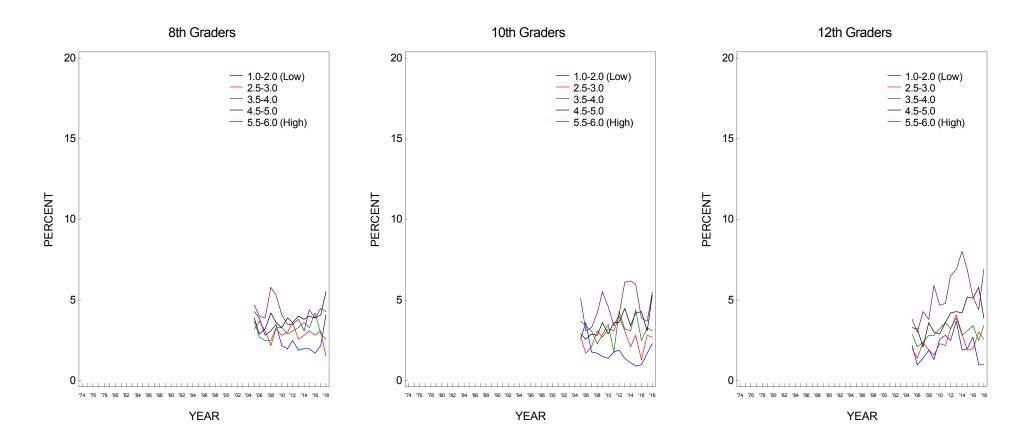
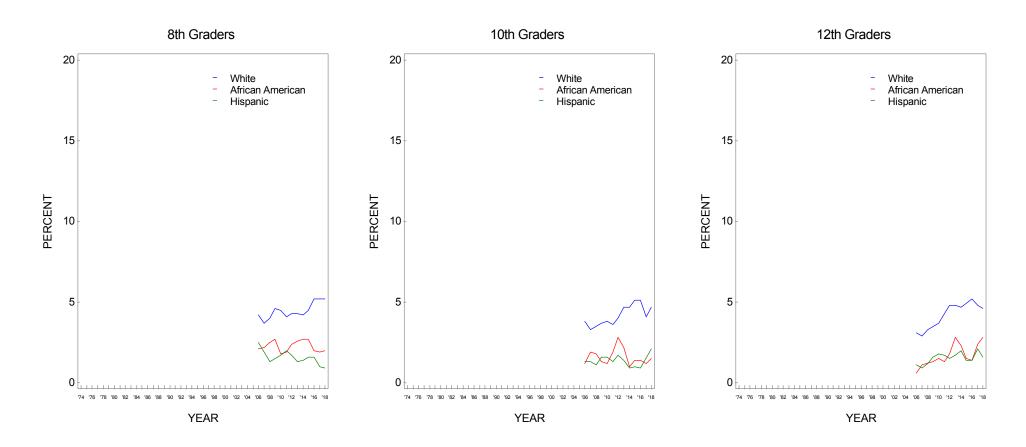


FIGURE 431
Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 432
Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 433
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Gender

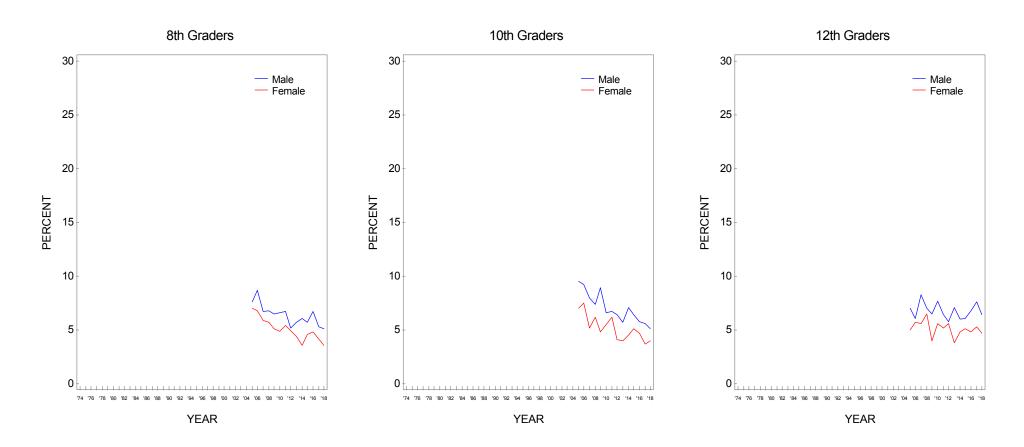


FIGURE 434
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by College Plans

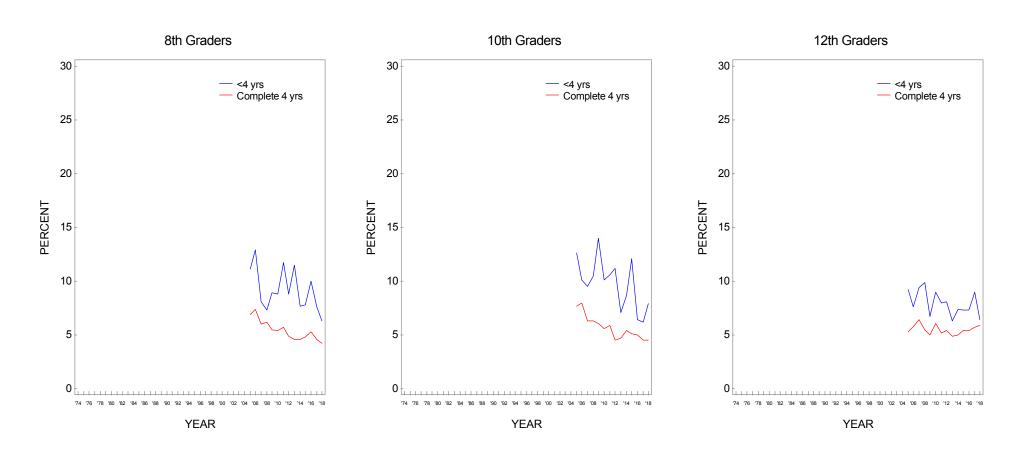


FIGURE 435
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Region

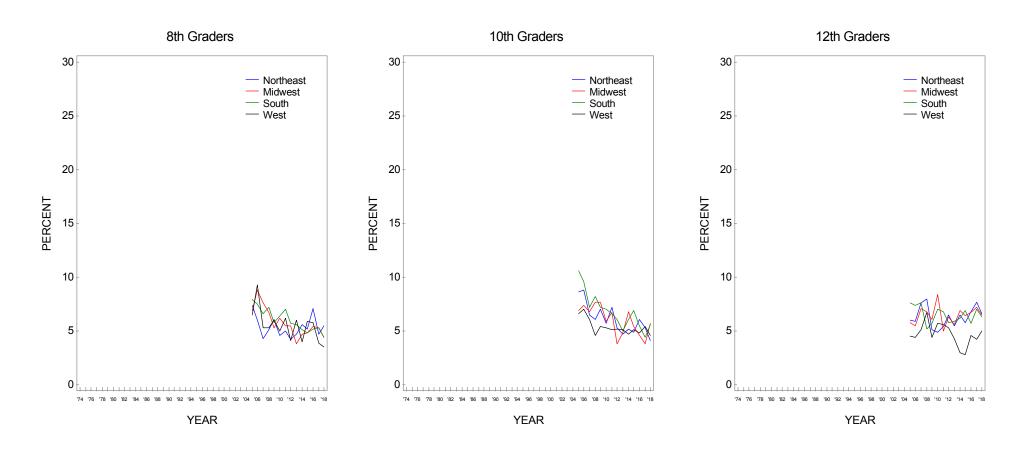


FIGURE 436
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Population Density

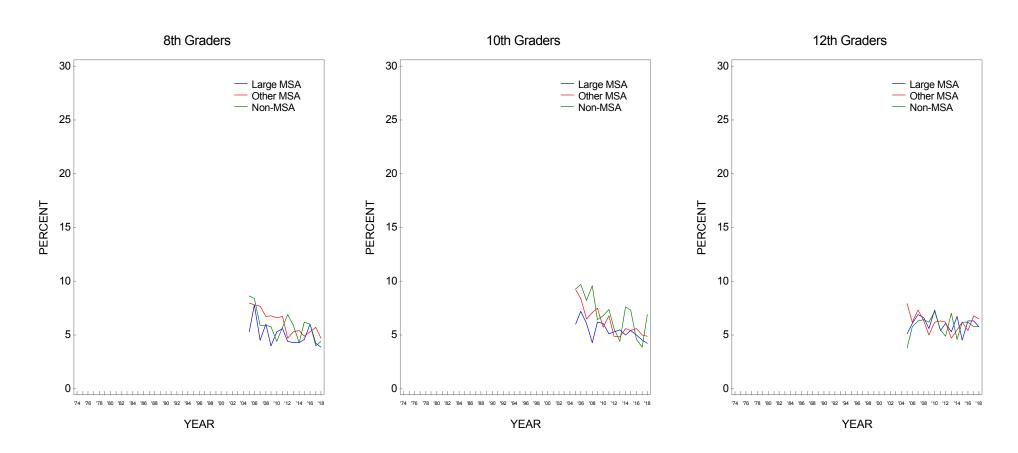
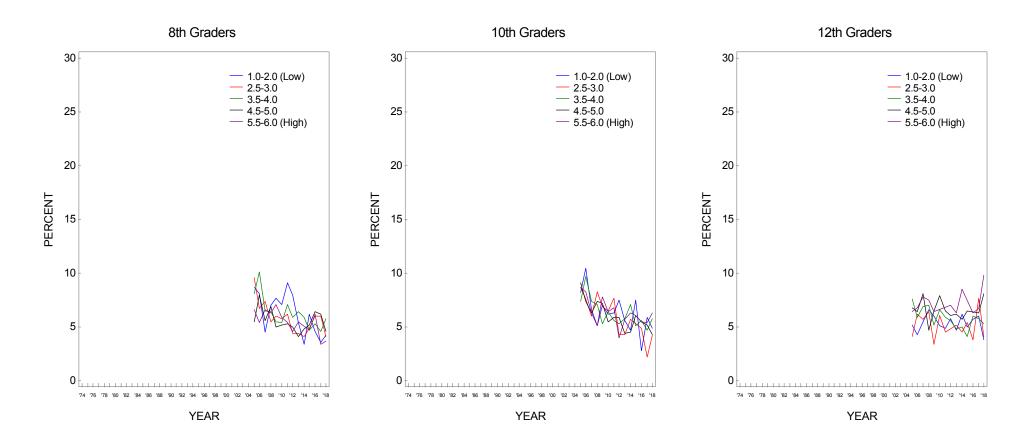
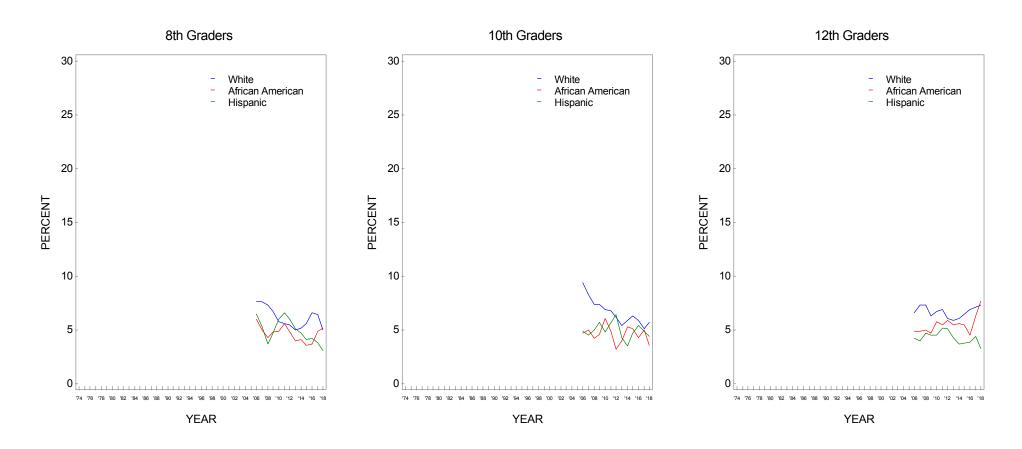


FIGURE 437
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 438
Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 439 Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Gender

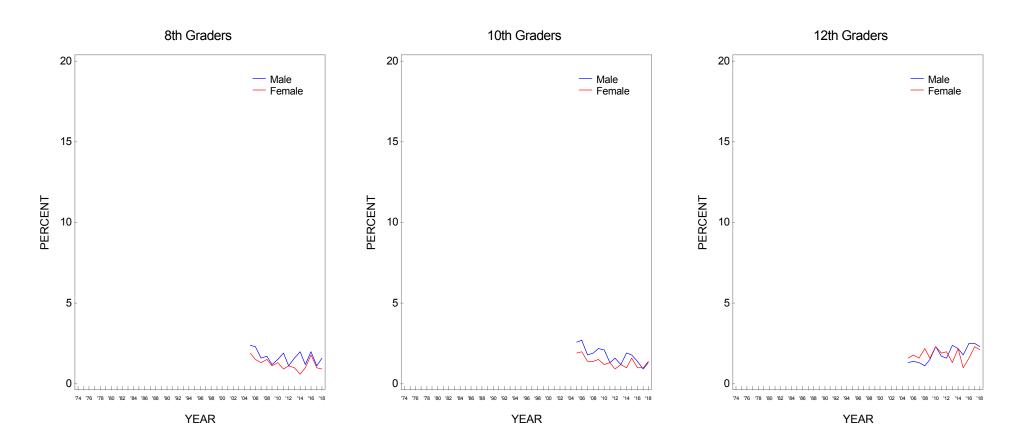


FIGURE 440
Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by College Plans

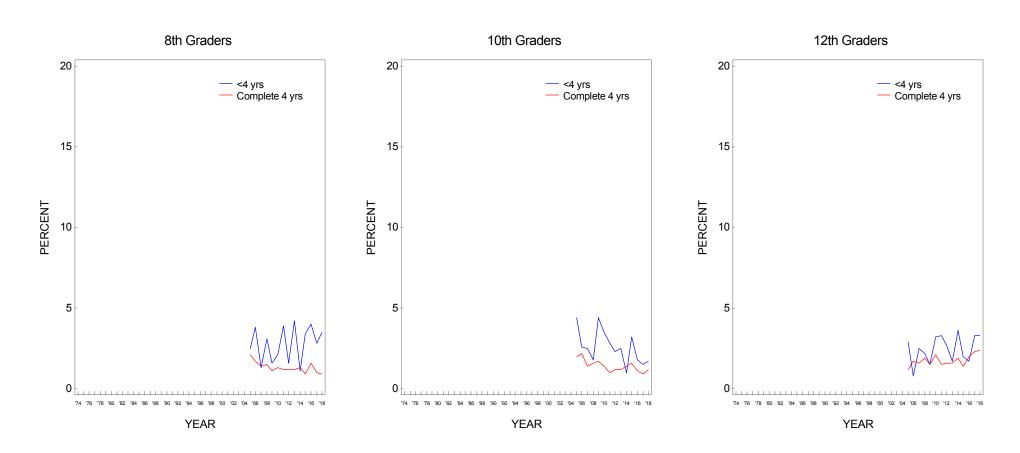


FIGURE 441
Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Region

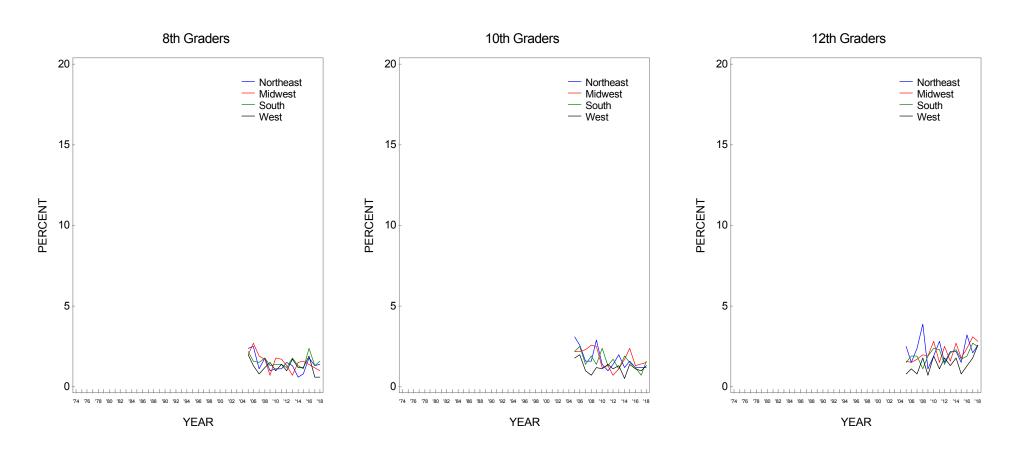


FIGURE 442
Non-Stimulant-Type ADHD Drugs: Trends in Curent Prevalence of Legal Use by Population Density

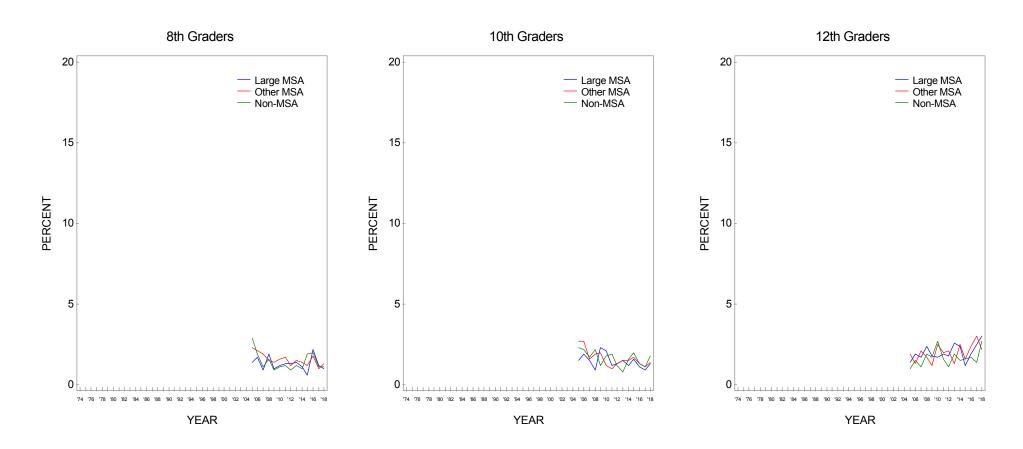
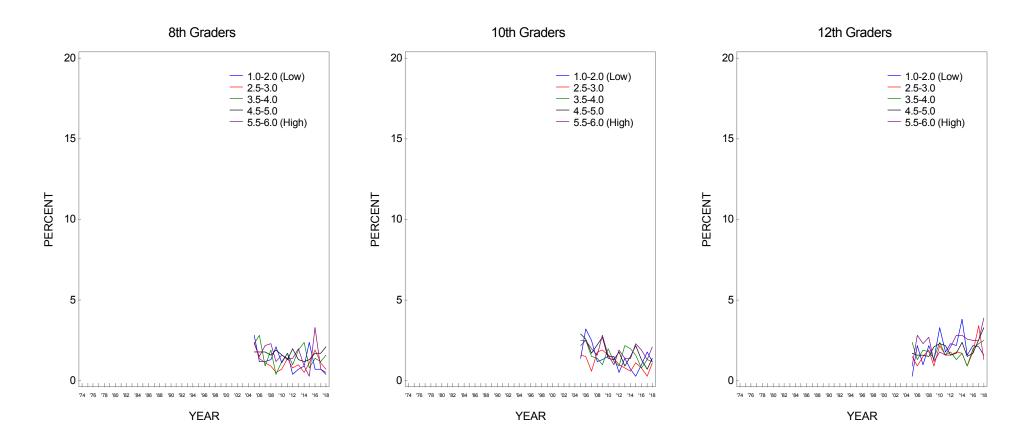
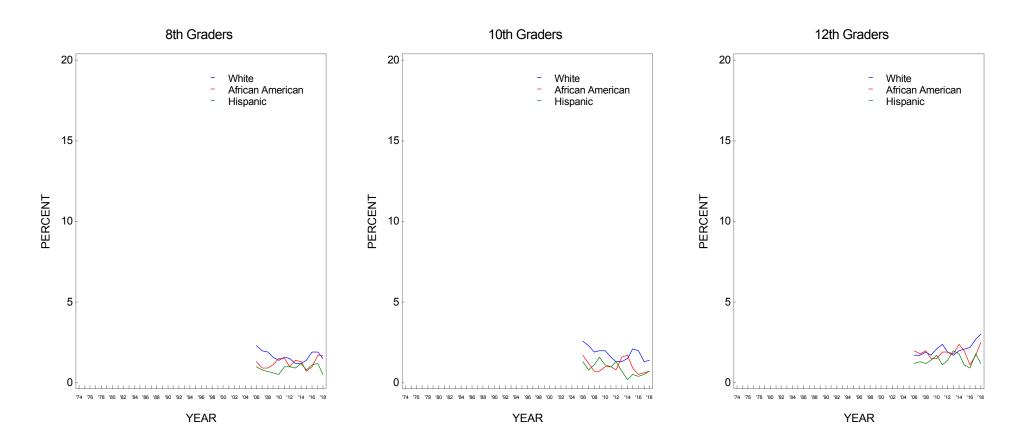


FIGURE 443
Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 444
Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 445
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Gender

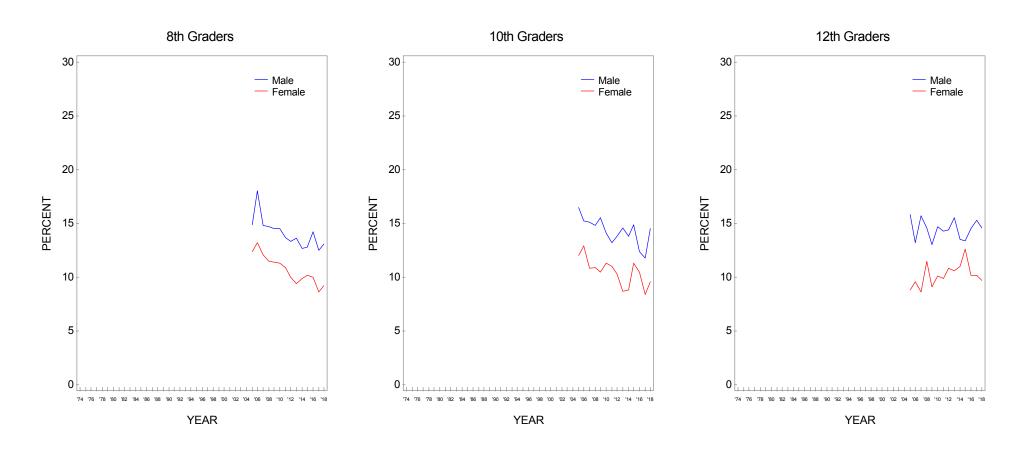


FIGURE 446
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by College Plans

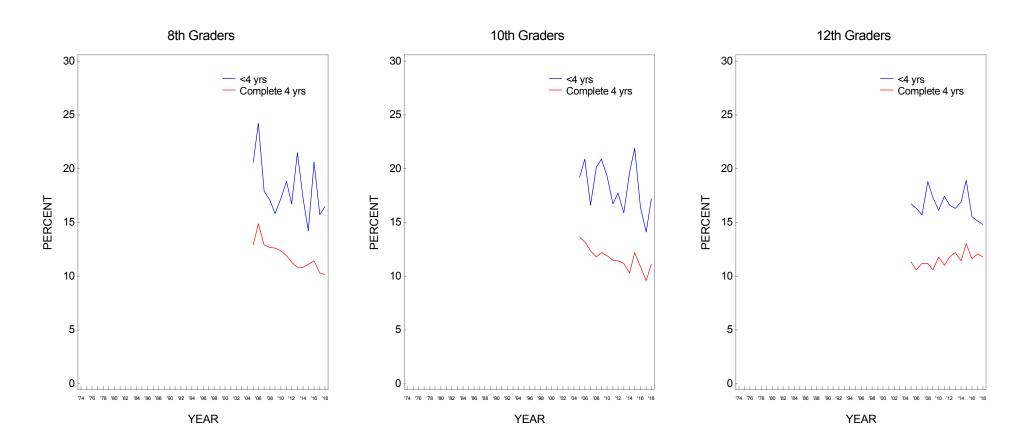


FIGURE 447
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Region

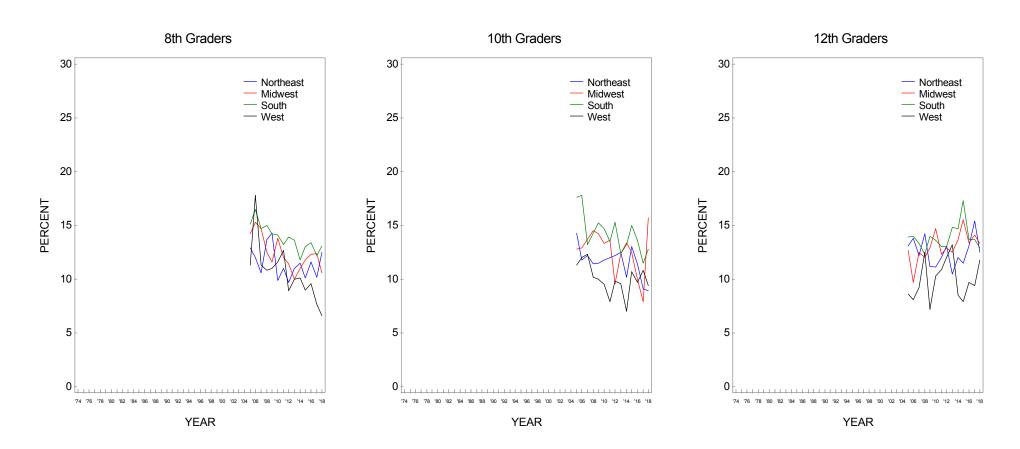


FIGURE 448
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Population Density

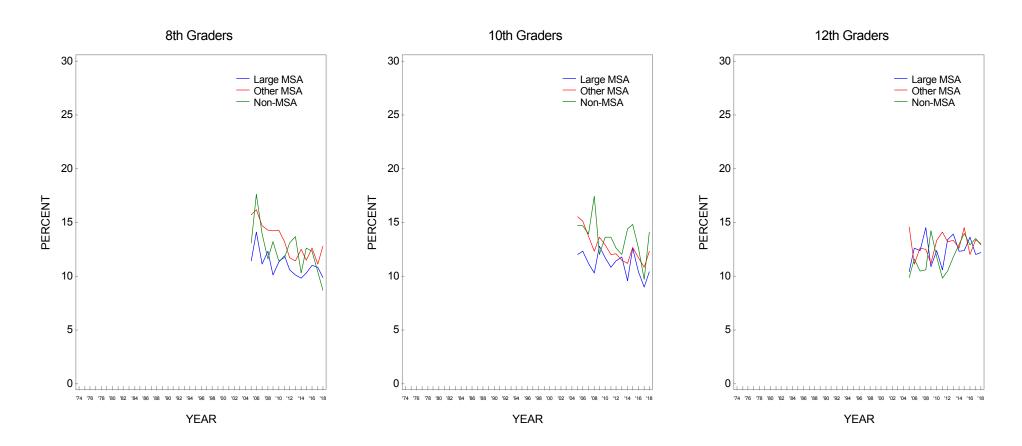
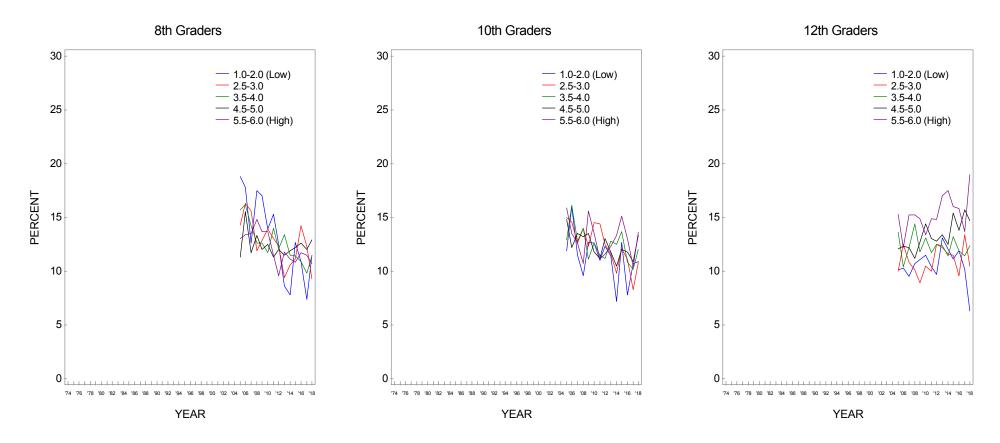
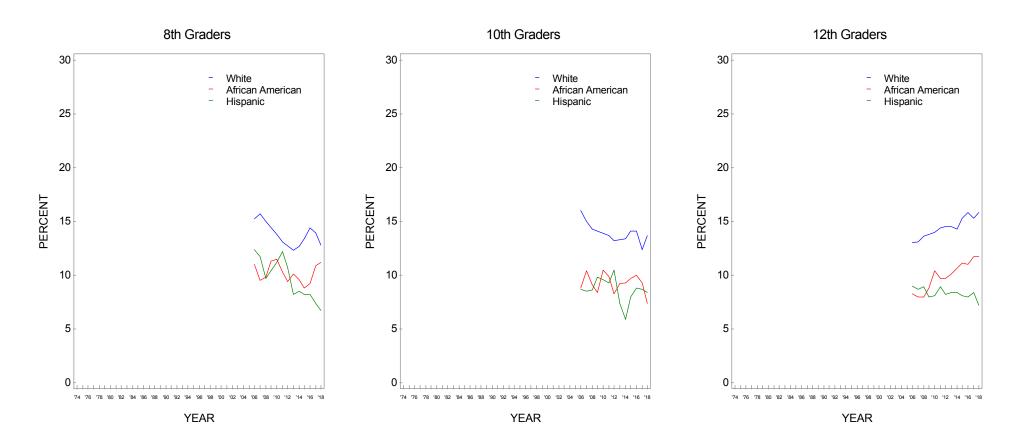


FIGURE 449
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 450
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Lifetime Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 451
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Gender

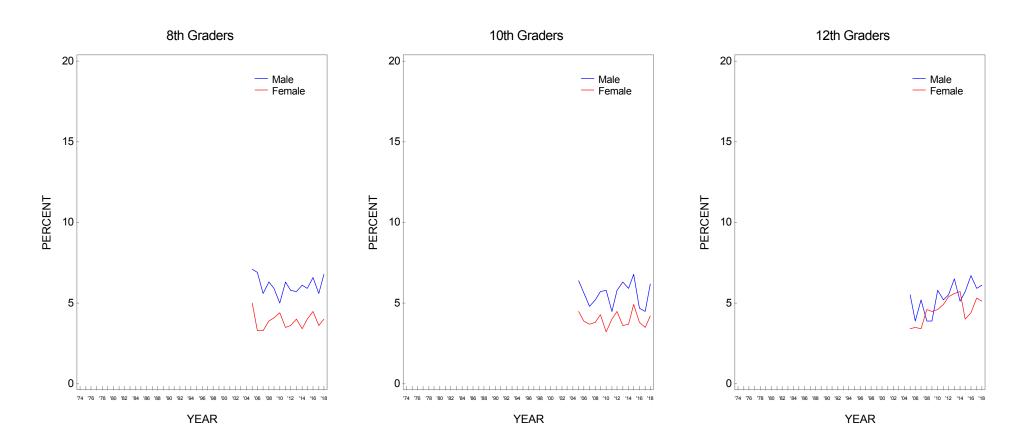


FIGURE 452
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by College Plans

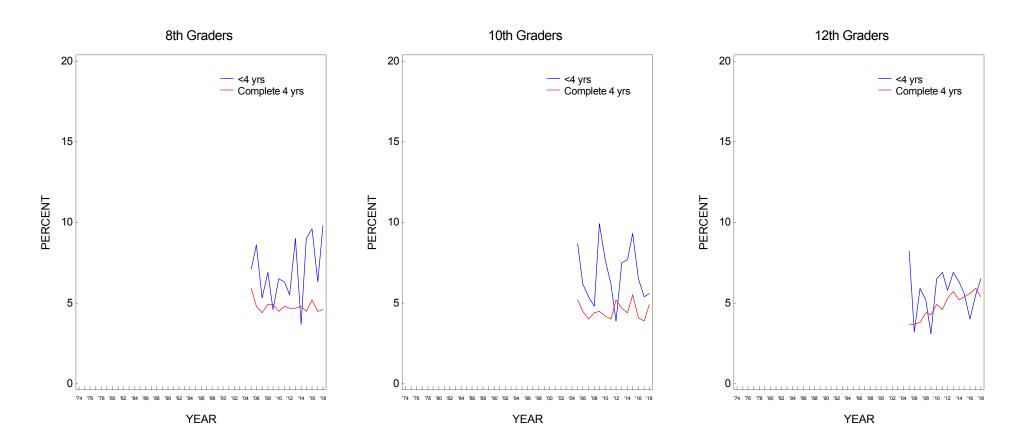


FIGURE 453
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Region

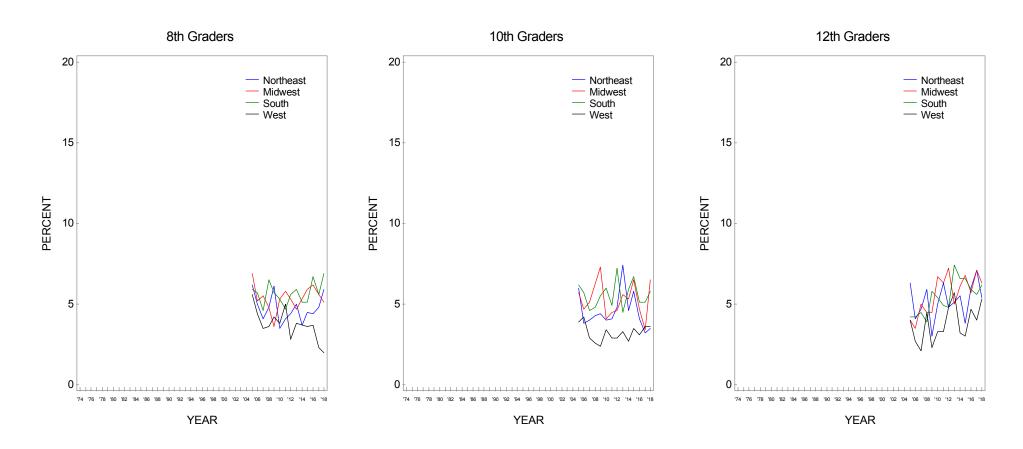


FIGURE 454
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Curent Prevalence of Legal Use by Population Density

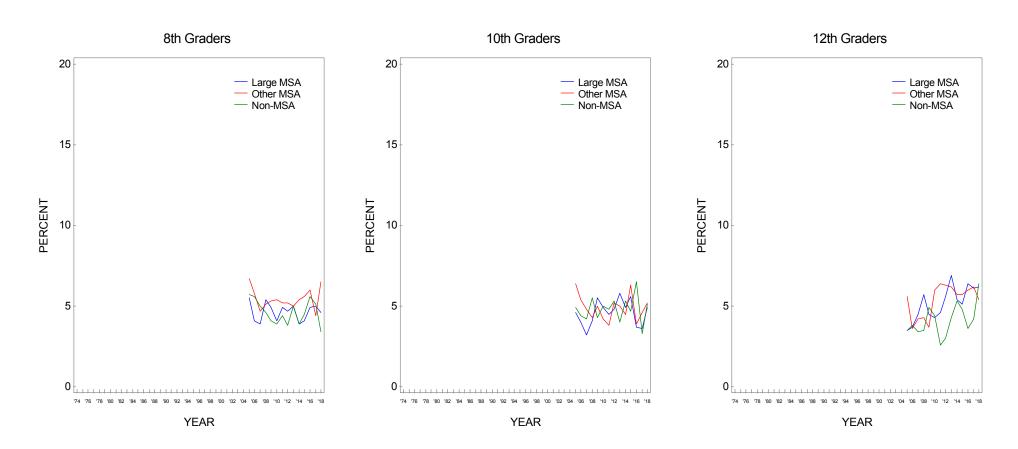
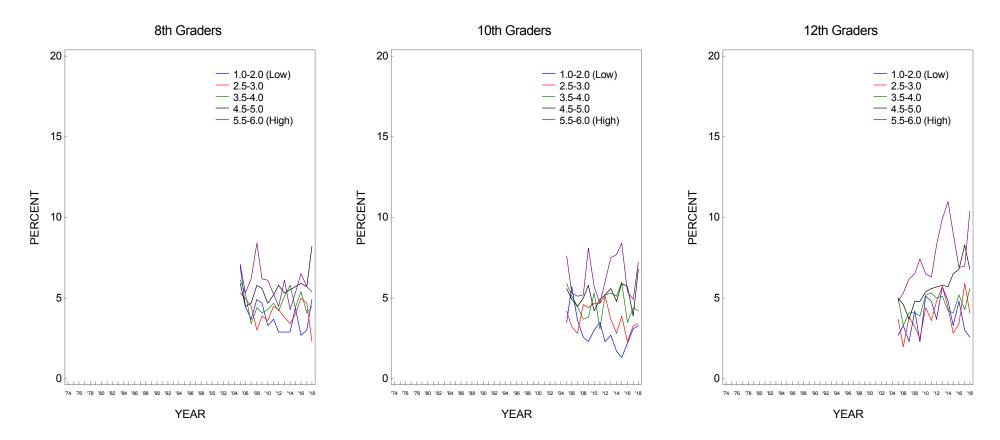
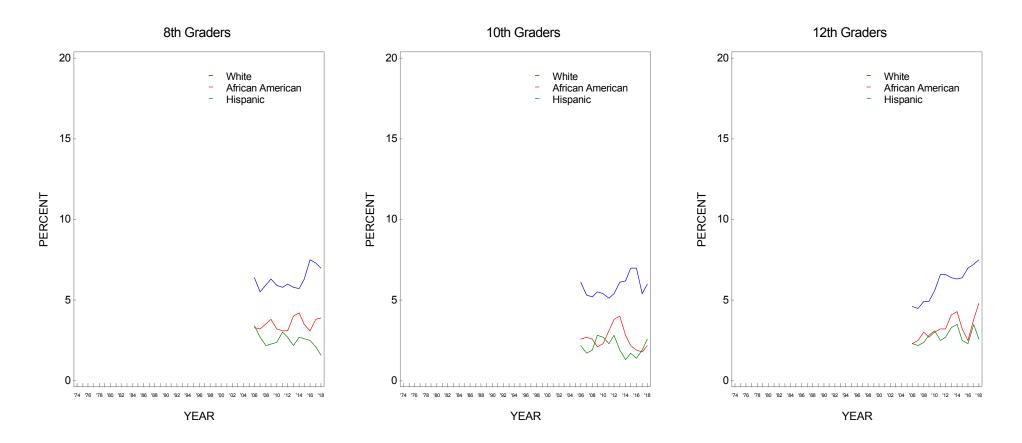


FIGURE 455
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Average Education Level of Parents\*



<sup>\*</sup>Parental education is an average score of mother's education and father's education.

FIGURE 456
Either Stimulant-Type or Non-Stimulant-Type ADHD Drugs: Trends in Current Prevalence of Legal Use by Race/Ethnicity\*



<sup>\*</sup>To derive percentages for each racial/ethnic subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

# DEFINITION OF BACKGROUND AND DEMOGRAPHIC SUBGROUPS

The following are brief definitions of the background and demographic subgroups explored in the Monitoring the Future (MTF) national survey of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> graders' attitudes toward and use of drugs (including alcohol and tobacco). A more thorough discussion of the findings can be found in Appendix B of the MTF Volume I monograph, *Monitoring the Future National Survey Results on Drug Use, 1975-2018: Volume I, Secondary School Students.*<sup>4</sup> (Note: All case counts provided in the tables are based on weighted Ns.)

**Total:** The total sample of respondents in a given year based on weighted cases (set to equal

the total number of actual cases).

**Gender:** Male and female. Respondents are asked, "What is your sex?" Those with missing data

on the question are omitted from the data presented by gender.

College Plans:

Respondents are asked how likely it is that they will graduate from a four-year college program. College plans groupings are defined as follows:

*None or under four years.* Respondents who indicate they "definitely won't" or "probably won't" graduate from a four-year college program. (Note that, among those who do not expect to complete a four-year college program, a number still expect to get some postsecondary education.)

*Complete four years.* Respondents who indicate they "definitely will" or "probably will" graduate from a four-year college program.

Those not answering the college plans question are omitted from both groupings.

**Region:** 

Region of the country in which the respondent's school is located. There are four mutually exclusive regions in the US based on Census Bureau categories, defined as follows:

*Northeast.* Census classifications of New England and Middle Atlantic states consist of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania.

*Midwest.* Census classifications of East North Central and West North Central states consist of Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas.

**South.** Census classifications of South Atlantic, East South Central, and West South Central states consist of Delaware, Maryland, District of Columbia, Virginia, and West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas.

<sup>&</sup>lt;sup>4</sup>Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Patrick, M. E. (2019, forthcoming). *Monitoring the Future national survey results on drug use, 1975-2018: Volume I, Secondary school students.* Ann Arbor: Institute for Social Research, The University of Michigan.

**West.** Census classifications of Mountain and Pacific states consist of Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, and California (Alaska and Hawaii are also included in this Census region, but are not included in the MTF study).

## Population Density:

Population density of the area in which the schools are located. There are three mutually exclusive groups into which schools have been placed in a given year based on population density (which has been variously defined over time by the U.S. Bureau of the Census, as described below). The 1975–1985 samples were based on the 1970 Census; in 1986, one-half of the sample was based on the 1970 Census and the other half was based on the 1980 Census. In 1987 through 1993, all samples were based on the 1980 Census; in 1994, half of the sample was based on the 1980 Census and half on the 1990 Census. Starting in 2006 until 2013, each first-year half-sample of schools comes from a sample design that utilizes 2000 Census counts as the measure of size for first-stage units. Counts from the 2010 Census will be used for the samples beginning in 2014.

The three levels of population density were defined in terms of Standard Metropolitan Statistical Area (SMSA) designations through 1985, and then changed to the new Census Bureau classifications of Metropolitan Statistical Areas (MSAs). Except in the New England states, an MSA is a county or group of contiguous counties that contain at least one city of 50,000 inhabitants or more or twin cities with a combined population of at least 50,000. In the New England states, MSAs consisted of towns and cities instead of counties until 1994, after which New England Consolidated Metropolitan Areas (NECMAs) were used to define MSAs. Each MSA must include at least one central city, and the complete title of an MSA identifies the central city or cities. For the complete description of the criteria used in defining MSAs, see the Office of Management and Budget publication, *Metropolitan Statistical Areas*, 1990 (NTIS-PB90- 214420), Washington, D.C. The population living in an MSA is designated as the metropolitan population. The levels of population density used in MTF include those described here:

*Large MSA*. These were the 12 largest SMSAs as of the 1970 Census and were used for the 1975–1985 samples: New York, Los Angeles, Chicago, Philadelphia, Detroit, San Francisco, Washington, Boston, Pittsburgh, St. Louis, Baltimore, and Cleveland. As of the 1980 Census, the Large MSA group consisted of the 16 largest MSAs in the nation. This new structure was used for the 1986–1994 samples. These 16 MSAs include all of those mentioned above except Cleveland, plus Dallas-Fort Worth, Houston, Nassau-Suffolk, Minneapolis-St. Paul, and Atlanta.

A new sample design was developed based on the 1990 Census, beginning with the first-year half-sample of schools chosen in 1994. In the 1990s sample, only the eight largest MSAs are represented with certainty at all three grade levels; 16 other large MSAs are divided into pairs, with half randomly assigned to both the 8th- and 12th- grade samples and the other half assigned to the 10th-grade sample. The eight largest MSAs are New York, Los Angeles, Chicago, Philadelphia PA-NJ, Detroit, Washington DC-MD-VA, Dallas-Ft. Worth, and Boston. The other 16 large MSAs are Houston, Atlanta, Seattle-Tacoma, Minneapolis MN-WI, St. Louis MO-IL, San Diego, Baltimore, Pittsburgh, Phoenix, Oakland, Cleveland, Miami, Newark, Denver, San Francisco, and Kansas City MO-KS.

*Other MSAs.* This category consists of all other, smaller MSAs, as defined by the Census, except those listed previously.

**Non-MSAs.** This category consists of all areas not designated as MSAs—in other words, they do not contain a town (or twin cities) of at least 50,000 inhabitants. The population living outside of MSAs constitutes the nonmetropolitan population.

### Parental Education:

This is an average of mother's education and father's education based on the respondents' answers about the highest level of education achieved by each parent, using the following scale: (1) completed grade school or less, (2) some high school, (3) completed high school, (4) some college, (5) completed college, and (6) graduate or professional school after college. Missing data were allowed for one of the two parents. The respondent was instructed, "If you were raised mostly by foster parents, stepparents, or others, answer for them. For example, if you have both a stepfather and a natural father, answer for the one that was most important in raising you."

### Race/ Ethnicity:

From 1975 through 2004, respondents were asked, "How do you describe yourself?" and presented with a list of various racial/ethnic categories. A general instruction told them to select the one best response for each question. In 2005, the instructions in half of the questionnaire forms were revised in order to be more consistent with the guidelines of the Office of Management and Budget for assessing race/ethnicity. In the changed forms, respondents were presented with a list of racial/ethnic categories and instructed to "select one or more responses." An examination of the data showed that relatively few respondents (about 6% in 2005 and about 6.6% of the sample in 2014) selected more than one racial/ethnic category. Because some survey questions appear in only one or a few forms, there was some variation in the version of the race/ethnicity question upon which the 2005 data were based. Based on the analyses we have examined, we do not believe these different permutations make any appreciable difference in the results. In 2006 and thereafter the revised instruction was used in all forms. Those checking multiple racial/ethnic groups or one of the other specified groups are omitted from the reporting on race/ethnicity in this volume because of the small numbers of cases.

*White/Caucasian.* Consists of those respondents who describe themselves as White or Caucasian in 1975–2004. In 2005, the unchanged questionnaire forms were treated in a similar manner. For the revised question in 2005 and for all forms in 2006 and beyond, those checking only White and no other racial/ethnic group were categorized as White.

African American. Consists of those respondents who in 1975–1990 describe themselves as Black or Afro-American or who, in 1991–2004, describe themselves as Black or African American. In 2005, the unchanged questionnaire forms were treated in a similar manner; for the revised question in 2005 and for all forms in 2006 and beyond, only those checking Black or African American and no other racial ethnic group were categorized as African American.

*Hispanic*. Consists of those respondents who in 1975–1990 describe themselves as Mexican American or Chicano, or Puerto Rican or other Latin American. After 1990, this group includes those respondents who describe themselves as Mexican American or Chicano, Cuban American, Puerto Rican American, or other Latin American. (The term "Puerto Rican American" was shortened to "Puerto Rican" after 1994.) In 2005, the unchanged questionnaire forms were treated in a similar manner; the changed forms

in 2005 and for all forms in 2006 and beyond, only those checking Mexican American or Chicano, Cuban American, Puerto Rican, or Other Hispanic or Latino and no other racial/ethnic group were categorized as Hispanic.

# TRENDS BY SUBGROUP: SUPPLEMENTAL TABLES FOR SECONDARY SCHOOL STUDENTS

The tables in this section contain the numbers underlying the trend lines shown in the figures on subgroup trends. Trends in subgroup data for the 1975–2018 Monitoring the Future (MTF) results containing 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> graders' use of drugs and alcohol are presented in tables below. The trends observed span major classes of drugs for population subgroups defined by gender, college plans, region, population density, parental education, and race/ethnicity. Appendix D of Volume I contains a portion of the information presented here.<sup>5</sup>

Due to the sheer quantity of information such trend tables generate for each prevalence measure (e.g., lifetime, annual, 30-day, daily), we have selected only the prevalence periods that seem most useful for understanding subgroup differences below. Thus, for most drugs, we include only annual prevalence; rates for additional prevalence periods are provided for alcohol, cigarettes, and smokeless tobacco because of their more frequent use. The numbers of cases that go with the data in the figures may be found in the complete set of tables that are included below.

The subgroups distinguished in these tables are used throughout Volume I and defined in the previous section. The reader should note that two-year moving averages are given for the three major racial/ethnic groups included in order to reduce fluctuations in the trends due to random sampling differences. A footnote in each table describes the procedure used to obtain the presented data. A question about race/ethnicity identification was changed in 2005 in half of the questionnaire forms; allowing respondents to select multiple categories of race/ethnicity rather than just one (see the previous section for more details). In 2006, the remaining questionnaire forms were changed in a like manner. However, we believe that this change has had little effect on the results because so few respondents selected more than one of the categories offered.

For nearly all drugs, we provide one table showing the subgroup trends (since 1991) for 8<sup>th</sup> graders, a second table of trends (since 1991) for 10<sup>th</sup> graders and a third table showing the longer-term trends (since 1975) for 12<sup>th</sup> graders. However, for two of the drugs—sedatives (barbiturates) and narcotics other than heroin—the 8<sup>th</sup>- and 10<sup>th</sup>-grade data have been omitted, as they have been throughout MTF publications because we are less certain about the validity of the answers provided by those younger students. Specifically, we believe that they often fail to omit nonprescription substances. Usage questions for a few other drugs are simply not asked of 8<sup>th</sup> and 10<sup>th</sup> graders; thus, only 12<sup>th</sup>-grade tables are presented.

Sample sizes should be taken into account when interpreting the importance of any changes observed. The numbers provided in the tables assume that all respondents in a given grade were asked about their use of the drug. Some of the drugs were not contained in all questionnaire forms, meaning that the subgroup and total numbers must be adjusted accordingly. The "Notes" section at the bottom of each table will indicate if only a fraction of the total sample received the question.

This paper also includes graphic presentations of the trends presented in the tables for the various demographic subgroups. These figures use color to help distinguish the various subgroups and improve readability.

<sup>&</sup>lt;sup>5</sup>Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Patrick, M. E. (2019, forthcoming). *Monitoring the Future national survey results on drug use, 1975-2018: Volume I, Secondary school students.* Ann Arbor: Institute for Social Research, The University of Michigan.

TABLE 1

ANY ILLICIT DRUG: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Percen	tage who	o used ir	last 12	months					
	<u>1991</u>	1992	1993	1994	<u>1995</u>	1996	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	11.3	12.9	15.1	18.5	21.4	23.6	22.1	21.0	20.5	19.5	19.5	17.7	16.1	15.2	15.5
Gender:															
Male	11.7	11.9	15.2	19.4	22.3	23.6	22.6	21.3	21.3	19.7	21.3	19.2	16.4	15.0	15.2
Female	11.0	13.6	14.9	17.6	20.2	23.3	21.3	20.4	19.7	19.0	17.5	16.3	15.5	15.2	15.6
College Plans:															
None or under 4 years	22.8	25.6	30.7	34.6	38.4	40.3	39.6	41.3	39.9	38.9	38.5	36.8	34.7	33.6	35.2
Complete 4 years	9.5	10.9	12.8	16.3	19.1	21.0	19.9	18.4	18.0	17.1	17.2	15.7	14.0	13.2	13.3
Region:															
Northeast	9.3	10.6	11.5	16.6	17.9	20.3	20.2	16.0	18.2	16.6	18.1	13.8	13.1	13.0	12.3
Midwest	11.2	13.0	13.9	17.2	23.3	24.7	22.3	21.9	22.6	20.6	18.0	17.0	15.7	14.2	15.9
South	11.5	12.9	15.1	17.6	20.8	22.5	21.6	22.3	21.0	19.2	21.5	20.1	18.1	16.8	17.4
West	13.3	15.0	21.1	23.7	23.3	27.1	24.4	22.0	19.2	21.0	18.9	18.4	15.6	15.5	14.5
Population Density:															
Large MSA	10.5	12.0	13.1	16.2	15.2	23.4	20.5	19.8	19.1	18.1	16.4	15.9	14.3	14.0	14.9
Other MSA	12.1	14.4	17.3	21.5	23.7	24.9	22.6	21.4	19.5	18.8	21.5	18.3	16.2	15.9	16.2
Non-MSA	10.8	11.2	12.9	14.0	20.3	21.4	22.9	21.6	24.3	22.7	19.1	18.9	18.1	15.3	15.0
Parental Education: b															
1.0-2.0 (Low)	19.5	18.5	20.8	26.1	29.8	26.7	29.5	30.4	30.2	30.9	29.9	27.3	26.4	25.7	24.9
2.5–3.0	11.7	14.1	17.1	20.2	24.3	25.7	25.5	24.2	24.9	23.9	23.3	22.4	20.4	18.5	20.5
3.5-4.0	11.6	13.6	15.4	19.7	23.4	26.2	23.8	21.8	21.0	20.1	21.5	18.5	16.9	16.7	16.7
4.5–5.0	8.7	10.2	12.8	15.7	17.4	21.3	19.3	17.8	15.6	14.6	15.0	14.5	12.0	12.1	11.4
5.5-6.0 (High)	10.2	10.1	11.8	14.9	17.7	19.8	16.8	17.1	15.8	15.0	13.4	12.1	11.0	10.9	9.8
Race/Ethnicity (2-year average): c															
White	_	11.8	13.6	15.7	19.2	22.4	23.0	21.5	19.9	19.1	19.0	18.3	16.5	14.9	14.4
African American	_	7.9	9.3	13.0	15.8	17.5	18.1	18.1	18.6	18.3	16.7	15.1	14.6	14.6	15.6
Hispanic	_	18.1	20.6	24.6	26.7	26.9	26.5	26.7	27.4	25.1	24.3	24.8	22.8	20.9	18.8

TABLE 1 (cont.)

ANY ILLICIT DRUG: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 8

					Percen	tage wh	o used ir	n last 12	months					
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 16 500	2007 16,100	2008 15,700	2009 15,000	2010 15,300	2011 16,000	2012 15,100	2013 14,600	2014 14,600	2015 14,400	2016 16,900	2017 15,300	2018 14,000	<u>change</u>
Total	14.8	13.2	14.1	14.5	16.0	14.7	13.4‡	15.2	14.6	14.8	12.0	12.9	13.4	+0.5
Gender:	14.0	13.2	14.1	14.5	10.0	14.7	13.44	13.2	14.0	14.0	12.0	12.5	13.4	TU.3
Male	15.1	13.2	14.3	15.7	16.7	15.7	13.8‡	14.9	14.1	14.0	11.3	11.6	13.2	+1.5
Female	14.2	12.9	13.7	13.1	15.4	13.7	12.7‡	14.9	14.5	15.3	12.5	13.6	13.3	-0.3
College Plans:	14.2	12.5	13.7	13.1	13.4	13.3	12.7+	14.5	14.5	10.0	12.5	13.0	13.3	-0.3
None or under 4 years	33.1	31.9	34.5	30.7	33.6	32.1	30.1‡	31.3	29.0	27.5	25.4	24.7	25.8	+1.1
Complete 4 years	13.0	11.4	12.3	13.0	14.6	13.2	12.1‡	14.0	13.3	13.6	10.7	11.5	11.6	+0.1
	13.0	11.4	12.3	13.0	14.0	13.2	12.14	14.0	13.3	13.0	10.7	11.5	11.0	+0.1
Region: Northeast	10.0	0.1	44.0	12.0	111	0.0	0.6+	10 F	12.0	11.6	7.5	10.0	8.8	-1.3
	10.8	8.1	11.3	13.8	14.1	9.8	9.6‡	12.5	12.9			10.0		
Midwest	13.9	12.9	15.5	13.5	14.2	13.0	9.9‡	13.4	13.4	15.6	12.2	11.2	11.3	0.0
South	17.7	15.2	15.6	15.9	18.4	15.7	15.8‡	17.3	14.7	14.9	13.1	13.2	13.2	0.0
West	13.9	13.3	12.4	13.5	15.5	18.6	15.6‡	15.5	16.7	16.1	13.0	16.0	19.2	+3.2
Population Density:														
Large MSA	13.5	11.5	12.5	12.4	15.3	13.4	12.6‡	15.9	16.0	14.8	11.3	12.5	14.0	+1.5
Other MSA	15.6	13.8	15.1	15.7	17.2	16.1	14.3‡	14.8	14.1	15.7	11.8	13.5	13.5	0.0
Non-MSA	15.2	14.5	14.2	14.5	14.4	13.7	12.7‡	14.9	13.7	12.9	13.3	12.0	12.0	0.0
Parental Education: <sup>b</sup>														
1.0-2.0 (Low)	23.7	23.2	23.3	21.5	24.6	23.4	22.0‡	25.8	22.9	24.0	17.9	19.8	19.0	-0.8
2.5–3.0	18.6	16.8	19.2	19.0	20.6	20.1	18.4‡	22.1	19.6	18.8	15.1	17.5	18.0	+0.5
3.5-4.0	16.5	14.9	15.3	15.8	17.1	16.4	15.4‡	17.9	16.4	16.1	13.5	13.5	15.7	+2.3
4.5–5.0	11.0	9.2	10.5	11.1	12.8	10.7	9.6‡	11.0	10.4	10.3	9.7	9.4	9.9	+0.5
5.5-6.0 (High)	9.9	8.1	9.6	9.9	10.5	8.7	7.9‡	9.0	10.5	10.0	7.8	8.7	7.5	-1.2
Race/Ethnicity (2-year average): c														
White	14.1	13.1	13.0	13.5	14.1	13.8	12.1	11.1‡	11.5	11.5	10.4	9.8	10.3	+0.5
African American	14.9	12.7	12.3	14.2	15.7	15.0	13.5	14.9‡	14.9	14.7	14.3	13.9	13.1	-0.8
Hispanic	17.9	16.8	16.1	16.8	18.2	19.3	19.3	18.9‡	18.9	17.9	15.8	14.3	15.5	+1.2

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. 'Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms;

N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

<sup>&</sup>lt;sup>a</sup>Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 2

ANY ILLICIT DRUG: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

						Percen	tage wh	o used ir	last 12	months					
	<u>1991</u>	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	21.4	20.4	24.7	30.0	33.3	37.5	38.5	35.0	35.9	36.4	37.2	34.8	32.0	31.1	29.8
Gender:															
Male	21.6	20.4	25.1	31.8	33.7	38.8	40.1	35.3	37.0	39.4	39.6	35.9	33.2	32.0	30.5
Female	21.1	20.1	24.0	28.0	32.5	36.3	36.8	34.7	34.6	33.5	35.0	33.7	30.8	30.2	28.9
College Plans:															
None or under 4 years	32.7	32.0	37.7	43.2	47.3	52.4	55.2	50.5	51.8	53.5	52.7	51.5	48.6	46.9	45.8
Complete 4 years	18.9	17.8	21.9	27.0	30.8	35.0	35.7	32.2	33.2	33.9	34.6	32.1	29.2	28.9	27.6
Region:															
Northeast	21.8	19.0	26.9	29.6	32.4	37.7	37.8	39.0	38.2	34.0	37.4	35.2	32.6	32.8	31.3
Midwest	21.7	20.7	22.4	28.5	32.1	37.6	37.7	32.0	35.2	34.8	35.9	33.7	28.8	28.8	29.1
South	19.2	17.9	23.3	29.2	33.2	37.9	38.7	35.1	34.8	36.0	36.7	33.9	34.0	32.9	31.1
West	23.7	25.5	28.9	34.4	36.1	36.8	40.2	34.5	36.0	41.6	40.7	37.7	32.3	29.8	26.9
Population Density:															
Large MSA	21.4	19.9	24.0	29.4	28.7	35.5	37.2	32.6	35.0	36.5	34.0	33.0	30.5	28.9	28.0
Other MSA	22.0	20.8	25.1	32.7	35.5	40.0	40.0	36.9	37.3	36.6	39.0	36.9	32.4	32.0	31.1
Non-MSA	20.4	20.1	24.4	24.7	30.7	35.1	37.2	34.5	33.9	35.8	37.4	32.8	33.5	32.3	29.5
Parental Education: b															
1.0-2.0 (Low)	25.5	24.8	29.2	32.6	38.2	39.5	38.3	36.6	42.2	42.4	39.0	39.4	38.8	37.7	33.2
2.5–3.0	23.0	21.3	25.4	31.1	37.1	39.1	40.8	39.1	39.4	39.2	41.6	39.4	36.4	34.0	34.3
3.5-4.0	21.2	20.6	24.9	30.5	34.7	40.1	41.6	35.6	35.4	39.5	38.2	35.5	33.3	33.6	30.6
4.5–5.0	19.4	18.7	22.5	28.1	30.9	35.5	36.3	31.9	32.8	32.6	35.1	31.9	27.8	27.7	27.6
5.5-6.0 (High)	21.1	18.5	23.6	27.2	26.6	33.6	33.7	31.5	34.6	31.3	32.7	29.1	27.5	26.2	25.9
Race/Ethnicity (2-year average): c															
White	_	22.4	23.7	27.9	32.6	36.5	39.3	38.2	36.4	36.9	37.6	37.6	35.0	32.2	31.0
African American	_	10.8	11.9	18.5	23.6	27.3	30.2	28.9	28.4	29.7	30.5	28.5	27.3	29.3	29.0
Hispanic	_	23.6	26.3	30.3	34.3	40.0	41.3	38.1	38.4	39.3	38.8	36.2	33.8	34.5	32.8

TABLE 2 (cont.)

ANY ILLICIT DRUG: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

_					Percen	tage who	o used ir	last 12	months					
	0000	0007	0000	0000	0040	0044	0040	0040	004.4	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 16.200	2007 16,100	2008 15.100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	change
	28.7	28.1	26.9	29.4	30.2			32.1	29.9	27.9	26.8			+2.1
Total	20.7	20.1	26.9	29.4	30.2	31.1	30.1‡	32.1	29.9	27.9	20.0	27.8	29.9	+2.1
Gender:	00.0	00.5	07.0	04.0	00.0	00.0	00.01	040	00.0	07.0	05.0	00.4	00.5	0.4
Male	29.3	29.5	27.9	31.6	33.0	33.8	32.9‡	34.9	30.3	27.8	25.9	26.1	29.5	+3.4 s
Female	28.1	26.7	25.6	27.3	27.3	28.2	27.5‡	29.4	29.4	27.6	27.1	28.9	30.2	+1.3
College Plans:														
None or under 4 years	46.2	45.7	47.0	48.5	48.8	50.4	46.2‡	46.2	44.4	44.3	41.0	39.1	43.2	+4.1
Complete 4 years	26.4	25.7	24.2	27.3	28.0	28.9	28.5‡	30.6	28.4	26.1	25.2	26.1	28.0	+1.9
Region:														
Northeast	27.8	27.7	28.6	26.2	27.9	30.6	33.2‡	29.7	29.5	28.9	26.0	27.8	32.3	+4.5 s
Midwest	28.2	28.1	25.8	26.2	28.1	29.0	26.3‡	29.9	26.6	23.9	25.5	27.5	27.4	-0.1
South	29.7	26.7	27.1	31.6	31.0	31.4	30.3‡	33.6	31.1	28.4	27.3	26.1	28.9	+2.9
West	29.0	30.2	26.2	32.6	33.3	33.2	31.6‡	34.1	31.8	30.2	27.8	30.4	32.2	+1.8
Population Density:														
Large MSA	27.3	27.9	26.4	29.0	28.9	29.5	30.8‡	31.0	30.0	28.2	26.4	29.9	31.6	+1.7
Other MSA	28.6	28.3	28.1	30.7	31.9	32.6	30.2‡	33.8	30.5	28.2	26.6	27.4	30.7	+3.3
Non-MSA	31.4	27.8	24.8	27.4	28.6	30.2	29.2‡	29.5	28.5	26.3	28.0	25.2	25.3	+0.1
Parental Education: b														
1.0-2.0 (Low)	36.2	32.0	33.6	39.5	37.4	37.7	39.8‡	40.5	35.0	36.8	30.1	31.8	34.1	+2.3
2.5–3.0	33.7	33.0	31.7	32.8	36.1	36.3	34.5‡	40.6	34.8	34.0	31.9	31.9	34.1	+2.2
3.5-4.0	30.6	30.2	29.2	30.3	31.9	33.2	31.8‡	32.1	33.6	31.8	28.7	30.4	31.8	+1.4
4.5–5.0	24.6	24.7	22.3	26.5	24.6	27.2	27.5‡	29.2	25.5	24.5	24.1	24.7	26.9	+2.2
5.5-6.0 (High)	24.3	21.7	21.7	24.5	25.7	25.1	24.8‡	24.2	24.3	20.7	23.5	24.0	26.5	+2.5
Race/Ethnicity (2-year average): c														
White	30.2	29.4	28.0	27.9	29.2	30.0	29.7	29.2‡	29.0	27.2	26.6	27.1	27.7	+0.6
African American	26.2	24.2	22.4	23.5	26.6	29.6	30.6	32.5‡	33.2	30.8	28.5	26.2	26.4	+0.3
Hispanic	28.5	27.3	30.1	33.1	34.0	33.5	34.3	36.3‡	35.8	32.8	29.8	28.8	31.0	+2.2

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of
Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See
Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is
one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

<sup>&</sup>lt;sup>a</sup>Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 3

ANY ILLICIT DRUG: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months 1975 1977 1979 1978 1980 1984 1985 1986 1987 1988 1990 1982 1983 Approximate weighted N = 9,400 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 15,200 52.1 32.5 Total 48.1 51.1 53.8 54.2 53.1 49.4 47.4 45.8 46.3 44.3 41.7 38.5 35.4 Gender: Male 49.0 52.6 55.4 58.6 58.1 56.0 53.6 51.8 49.7 48.0 48.3 45.7 43.2 34.3 43.0 46.7 50.1 49.8 50.8 46.3 42.8 43.8 42.3 39.7 36.1 32.8 30.1 Female 48.7 44.4 College Plans: None or under 4 years 56.5 55.8 53.4 50.8 50.1 48.6 46.7 42.0 40.9 37.8 50.6 54.3 55.5 56.8 50.3 Complete 4 years 44.3 46.8 50.5 50.5 49.7 48.6 45.5 43.7 41.4 43.1 41.2 39.0 36.5 32.6 29.6 Region: Northeast 51.5 55.3 56.8 61.6 62.9 58.9 58.8 55.1 53.8 54.7 53.2 49.7 45.8 41.2 36.0 36.4 Midwest 45.5 51.9 50.3 42.4 45.7 45.0 42.7 39.7 38.7 47.6 54.6 55.0 53.1 53.4 46.9 34.0 South 38.1 42.3 46.2 47.5 45.4 47.0 43.7 42.2 41.3 41.4 37.2 37.4 35.9 34.2 30.7 27.6 West 50.0 56.4 51.7 49.1 45.7 41.8 39.5 48.3 49.7 53.2 55.8 55.5 50.7 53.3 47.8 34.4 Population Density: Large MSA 54.5 54.6 56.3 60.3 61.3 59.9 57.8 54.8 52.0 49.7 49.9 48.0 43.9 39.1 32.9 32.6 Other MSA 45.0 47.8 52.4 55.2 53.8 52.1 49.8 49.6 46.7 46.5 45.1 42.7 40.5 36.3 33.5 54.5 Non-MSA 47.6 38.8 43.7 45.2 47.4 47.0 47.6 44.0 41.1 41.4 43.0 40.0 37.6 34.3 36.0 30.1 Parental Education: c 1.0-2.0 (Low) 43.4 45.3 47.7 50.2 49.5 48.1 44.3 45.1 42.7 42.8 38.1 35.4 35.8 28.4 26.6 2.5-3.0 46.0 49.2 51.8 53.3 53.2 53.0 51.2 48.8 46.3 45.7 44.8 41.8 37.2 35.3 32.7 3.5-4.0 48.9 53.1 55.1 56.1 54.2 52.8 50.8 46.5 47.6 47.2 45.6 42.2 38.6 37.7 33.8 4.5-5.0 50.8 51.7 56.3 57.1 54.0 53.4 49.7 48.9 44.9 48.4 44.7 43.1 40.0 35.5 33.1 5.5-6.0 (High) 51.8 59.1 54.3 55.0 54.8 48.5 46.1 45.5 44.5 44.5 43.5 40.6 36.3 33.3 51.3 Race/Ethnicity (2-year average:) d White 50.4 54.9 54.4 50.7 49.3 47.4 47.6 47.2 45.2 43.0 40.3 37.5 53.5 55.2 40.5 36.4 38.5 37.8 35.9 33.3 28.9 17.0 African American 40.8 42.8 41.5 39.0 25.0 21.3 Hispanic 49.9 49.5 48.4 48.1 46.8 42.7 42.0 43.1 43.9 42.8 38.9 26.4 35.4 30.1

TABLE 3 (cont.)

ANY ILLICIT DRUG: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

_						Percer	itage who	o used in	last 12 r	nonths					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	29.4	27.1	31.0	35.8	39.0	40.2	42.4	41.4	42.1	40.9	41.4	41.0	39.3	38.8	38.4
Gender:															
Male	32.1	29.0	33.5	38.6	41.5	43.4	44.1	45.2	45.0	43.4	43.8	43.5	41.3	41.4	42.1
Female	26.2	24.7	27.9	32.7	35.8	36.2	40.0	37.2	38.9	38.0	38.4	37.8	36.7	35.9	34.5
College Plans:															
None or under 4 years	33.9	33.5	34.9	40.8	44.1	46.2	48.8	47.3	47.9	45.1	46.2	46.2	46.8	44.4	46.5
Complete 4 years	27.1	24.4	29.2	33.6	36.7	37.8	40.1	39.1	40.3	38.8	39.6	39.3	36.6	36.8	36.1
Region:															
Northeast	31.9	28.7	36.1	39.4	41.7	44.6	47.7	46.2	42.5	46.2	47.4	45.7	43.7	43.9	43.2
Midwest	31.3	27.8	30.8	36.5	40.9	40.9	40.6	38.1	42.1	38.9	42.0	41.6	40.0	38.2	38.8
South	24.5	23.7	28.2	34.1	36.4	37.6	38.8	40.5	40.8	35.3	37.3	38.1	34.8	35.7	36.6
West	32.6	31.1	31.8	34.7	38.2	39.1	45.9	43.1	44.2	47.4	41.9	40.5	41.4	39.6	36.3
Population Density:															
Large MSA	28.6	26.8	32.9	36.4	41.7	41.3	42.1	42.0	42.4	41.1	43.9	41.9	35.7	36.3	38.5
Other MSA	33.0	27.3	31.7	37.8	39.0	42.3	44.2	42.1	43.3	42.6	41.0	42.4	42.7	42.4	39.8
Non-MSA	23.8	27.0	28.4	31.6	35.9	35.4	39.2	39.3	39.9	37.5	39.4	37.1	37.6	34.9	35.5
Parental Education: c															
1.0-2.0 (Low)	28.7	27.7	29.5	32.9	37.7	36.6	40.3	38.9	40.9	41.3	38.8	35.3	35.8	34.7	32.0
2.5-3.0	28.7	26.4	29.2	35.4	38.3	39.9	40.8	40.5	43.7	40.5	41.9	39.3	39.0	37.7	38.9
3.5-4.0	29.6	28.1	31.6	36.4	38.8	40.4	42.0	42.9	42.9	41.6	42.7	43.2	41.3	42.1	41.3
4.5-5.0	28.7	26.2	31.5	36.5	39.0	40.5	43.6	40.9	40.0	39.6	41.3	42.0	38.9	38.2	38.8
5.5-6.0 (High)	31.9	26.8	33.4	35.7	40.7	40.6	44.0	41.8	42.3	41.1	40.1	40.6	36.5	37.4	36.0
Race/Ethnicity (2-year average:) d															
White	33.9	30.5	31.4	35.5	39.0	40.8	42.8	44.0	43.3	42.8	43.1	43.6	42.8	42.0	41.6
African American	14.7	14.5	16.6	23.5	29.6	32.4	33.0	32.3	32.8	32.7	31.7	30.4	28.3	27.7	29.0
Hispanic	29.4	30.3	28.8	31.2	35.5	38.0	41.2	41.9	42.5	44.8	41.8	39.0	35.8	34.4	34.5

TABLE 3 (cont.)

ANY ILLICIT DRUG: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Percer	tage who	o used in	last 12 r	nonths					
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	36.5	35.9	36.6	36.5	38.3	40.0	39.7‡	40.1	38.7	38.6	38.3	39.9	38.8	-1.1
Gender:														
Male	37.5	38.4	38.8	39.9	41.4	43.2	43.5‡	43.2	39.8	39.7	39.2	40.2	39.7	-0.5
Female	35.0	33.2	34.1	33.2	34.7	36.2	35.1‡	36.5	36.9	37.2	37.0	38.9	36.8	-2.1
College Plans:														
None or under 4 years	46.1	43.7	46.0	42.7	46.5	46.6	44.3‡	47.5	44.5	42.5	40.4	42.4	42.5	+0.1
Complete 4 years	33.8	34.0	34.2	34.9	36.1	38.2	38.2‡	38.1	36.7	37.3	37.1	39.0	37.2	-1.8
Region:														
Northeast	42.0	41.9	40.0	40.5	44.1	42.8	40.9‡	43.7	43.0	43.3	40.7	42.9	42.8	-0.1
Midwest	36.3	37.3	35.1	36.5	36.3	37.9	35.3‡	35.4	38.3	35.8	37.0	41.1	40.1	-1.0
South	34.9	33.6	36.0	34.7	36.2	37.0	37.5‡	38.8	37.7	35.3	35.7	36.2	34.6	-1.6
West	34.6	33.4	36.5	36.0	38.9	44.4	46.1‡	44.3	37.0	43.1	42.3	42.8	41.7	-1.2
Population Density:														
Large MSA	38.2	37.9	37.7	40.2	39.9	41.5	43.0‡	43.2	38.8	41.6	40.8	42.4	39.9	-2.6
Other MSA	36.7	35.1	35.7	35.8	39.4	41.3	40.3‡	40.9	41.2	38.3	38.1	39.2	38.1	-1.2
Non-MSA	33.5	34.7	37.2	33.4	33.2	34.6	32.9‡	33.6	32.3	34.2	34.7	37.2	38.7	+1.5
Parental Education: c														
1.0-2.0 (Low)	37.6	35.6	34.6	33.0	36.9	40.3	45.4‡	41.6	40.7	40.3	37.7	37.1	36.2	-0.9
2.5–3.0	38.2	37.8	37.5	37.4	39.2	40.5	40.9‡	42.8	41.4	41.1	38.9	42.2	42.2	0.0
3.5-4.0	37.1	35.0	35.9	38.4	40.6	41.7	40.8‡	41.8	39.1	41.0	40.3	41.6	41.2	-0.4
4.5-5.0	33.2	34.9	36.5	35.4	37.9	38.5	38.5‡	38.1	36.5	35.4	37.4	38.9	37.4	-1.5
5.5-6.0 (High)	37.3	36.9	36.7	36.6	32.6	37.9	34.8‡	37.9	37.1	36.1	35.5	37.5	35.6	-1.9
Race/Ethnicity (2-year average): d														
White	40.0	38.5	38.7	38.7	38.8	40.2	40.3	39.3‡	38.9	38.5	38.5	39.2	39.5	+0.3
African American	30.0	28.7	28.6	30.4	33.1	34.8	35.0	37.7‡	39.6	36.3	35.6	38.0	38.8	+0.7
Hispanic	34.2	32.2	31.4	32.6	34.5	37.5	40.5	42.2‡	39.9	38.6	39.7	39.5	37.2	-2.4 s

Notes.

<sup>&#</sup>x27;‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimates and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

<sup>&</sup>lt;sup>a</sup>Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.

<sup>&</sup>lt;sup>b</sup>Beginning in 1982 the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence-of-use rate dropped slightly as a result of this methodological change.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 4** ANY ILLICIT DRUG OTHER THAN MARIJUANA: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in **Grade 8** 

						Percer	itage wh	o used ir	last 12	months						
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u> <sup>b</sup>	2002	2003	2004	<u>2005</u>	
Approximate weighted N =								18,100			16,200					
Total	8.4	9.3	10.4	11.3	12.6	13.1	11.8	11.0	10.5	10.2‡	10.8	8.8	8.8	7.9	8.1	
Gender:																
Male	8.0	8.0	9.2	10.1	11.5	11.0	10.8	9.6	9.7	9.1‡	10.0	8.1	7.9	7.0	6.6	
Female	8.8	10.4	11.5	12.3	13.5	14.7	12.6	12.1	11.2	10.9‡	11.2	9.3	9.4	8.8	9.3	
College Plans:																
None or under 4 years	16.3	18.5	21.3	21.2	25.3	23.0	22.1	23.8	23.4	22.7‡	21.5	19.7	20.0	18.0	18.2	
Complete 4 years	7.2	8.0	8.9	9.9	10.9	11.6	10.6	9.4	9.0	8.7‡	9.5	7.6	7.5	6.9	7.0	
Region:																
Northeast	6.8	6.6	8.2	10.3	10.7	11.3	9.5	8.5	8.5	8.0‡	9.5	5.8	7.1	5.9	5.8	
Midwest	8.6	10.4	9.4	10.2	14.0	14.3	12.5	10.5	11.9	11.2‡	9.9	8.7	8.7	7.7	8.1	Table continued on nex
South	8.6	9.7	11.0	11.7	12.5	12.6	11.8	12.5	11.2	10.3‡	12.4	10.6	10.0	9.0	9.5	
West	9.3	9.8	13.4	12.7	12.7	14.0	13.0	11.1	9.3	10.5‡	10.1	8.4	7.9	8.2	7.7	
Population Density:																
Large MSA	8.0	8.1	8.8	9.8	8.7	12.3	9.9	8.9	8.4	8.5‡	9.7	7.4	7.1	6.9	7.1	
Other MSA	8.6	10.4	11.8	12.5	13.5	14.1	12.2	11.2	10.7	10.1‡	11.8	9.2	8.7	8.5	8.8	
Non-MSA	8.6	8.9	9.8	9.8	13.2	12.1	13.0	12.8	12.8	12.3‡	10.3	9.8	11.0	8.0	8.1	
Parental Education: c																
1.0-2.0 (Low)	12.9	12.9	14.4	15.6	18.0	15.5	14.8	17.3	16.0	15.8‡	14.3	13.0	14.1	15.2	14.3	
2.5–3.0	8.5	10.1	11.8	12.4	14.2	13.9	12.9	12.2	12.1	12.2‡	13.2	10.9	10.9	8.8	10.3	
3.5-4.0	8.7	10.1	10.6	11.8	14.2	14.5	12.5	11.2	11.3	10.6‡	11.7	9.0	9.0	8.4	9.0	
4.5–5.0	7.1	7.5	9.1	9.5	9.7	12.0	10.6	9.4	8.5	7.7‡	8.9	7.6	6.7	6.8	5.7	
5.5–6.0 (High)	7.8	8.0	8.2	9.4	10.1	11.7	10.3	9.5	8.3	8.4‡	8.0	6.5	6.8	5.9	5.3	
Race/Ethnicity (2-year average): d										Ċ						
White	_	9.0	10.0	10.8	12.6	13.9	13.5	12.5	11.5	11.1	10.6‡	10.3 <sup>e</sup>	9.3	8.7	8.1	
African American	_	4.9	5.0	5.9	5.7	5.3	4.7	4.0	4.1	3.8	3.9±		4.4	4.4	4.2	
Hispanic		12.2	13.7	15.2	15.3	14.7	13.6	13.5	14.5	13.9	12.2±		10.8	10.4	9.9	

page.

TABLE 4 (cont.)

### **ANY ILLICIT DRUG OTHER THAN MARIJUANA:** <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in Grade 8

_					Percen	tage who	o used ir	last 12	months					
														2017-2018
	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	-,	14,000	
Total	7.7	7.0	7.4	7.0	7.1	6.4	5.5‡	6.3	6.4	6.3	5.4	5.8	6.1	+0.3
Gender:														
Male	6.5	5.9	6.0	6.6	6.4	6.1	4.8‡	5.5	5.3	5.1	4.7	4.4	5.8	+1.4 ss
Female	8.7	8.0	8.7	7.3	7.7	6.5	6.0‡	6.9	7.1	7.4	6.1	6.8	6.1	-0.6
College Plans:														
None or under 4 years	17.7	18.1	20.3	18.2	16.4	17.2	13.0‡	14.6	14.7	11.0	11.5	10.5	11.6	+1.0
Complete 4 years	6.7	6.0	6.3	6.0	6.3	5.5	4.9‡	5.7	5.7	5.9	4.8	5.1	5.2	+0.1
Region:														
Northeast	4.4	4.4	5.2	5.0	4.6	4.4	4.1‡	4.0	4.3	5.3	3.0	3.9	3.6	-0.3
Midwest	7.1	7.4	7.6	6.7	7.0	6.0	3.7‡	5.4	5.6	5.9	4.9	4.9	4.6	-0.3
South	9.8	7.8	8.8	8.4	8.3	6.7	7.3‡	8.2	7.1	6.7	6.4	6.1	6.8	+0.7
West	7.4	6.9	6.7	6.3	7.0	7.8	5.4‡	5.9	7.5	6.6	5.9	7.3	8.2	+0.9
Population Density:														
Large MSA	6.6	6.1	6.8	5.5	5.7	5.7	5.1‡	5.7	5.7	5.8	4.9	6.0	7.1	+1.1
Other MSA	8.0	7.6	7.7	7.8	8.0	7.0	6.1‡	6.5	6.9	7.1	5.5	5.8	5.8	0.0
Non-MSA	8.8	7.1	7.6	7.1	6.9	6.0	5.0‡	6.9	6.4	5.1	6.2	5.4	5.0	-0.4
Parental Education: c														
1.0-2.0 (Low)	12.3	11.9	13.6	12.4	11.5	10.7	8.3‡	10.6	9.4	9.8	8.5	9.7	8.3	-1.4
2.5–3.0	9.4	8.3	9.7	8.7	8.8	9.1	7.2‡	7.1	7.6	7.0	6.1	6.8	7.4	+0.7
3.5-4.0	8.4	7.8	8.0	7.4	7.3	7.0	6.5‡	8.2	7.0	6.8	5.4	5.8	6.8	+1.0
4.5–5.0	6.0	4.7	5.4	5.4	6.0	4.6	3.5‡	5.2	4.9	5.0	4.8	4.6	5.2	+0.6
5.5-6.0 (High)	6.2	5.5	5.7	5.1	4.7	4.3	4.4‡	4.0	5.4	5.1	4.8	4.2	4.0	-0.2
Race/Ethnicity (2-year average): d														
White	8.1	7.6	7.6	7.5	7.2	6.7	5.6	4.9‡	5.4	5.7	5.2	4.8	5.0	+0.2
African American	3.9	3.3	3.4	4.1	4.0	3.8	3.9	4.0‡	5.2	5.1	5.3	4.9	4.8	-0.1
Hispanic	9.2	8.6	8.4	8.6	8.7	8.7	8.1	7.4‡	7.4	7.1	6.8	6.5	7.0	+0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

<sup>a</sup>Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>b</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 5

ANY ILLICIT DRUG OTHER THAN MARIJUANA: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percen	tage who	used in	last 12	months						
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>□</sup>	2002	2003	2004	2005	
Approximate weighted N =															16,200	
Total	12.2	12.3	13.9	15.2	17.5	18.4	18.2	16.6	16.7	16.7‡	17.9	15.7	13.8	13.5	12.9	
Gender:																
Male	11.2	11.1	13.4	14.1	15.8	17.2	17.2	15.6	15.9	16.7‡	18.3	15.1	13.0	12.7	12.0	
Female	13.1	13.2	14.3	16.0	18.9	19.6	19.1	17.5	17.3	16.6‡	17.4	16.4	14.3	14.2	13.6	
College Plans:																
None or under 4 years	19.6	20.2	23.1	24.0	27.5	29.5	29.6	27.8	27.3	27.7‡	32.1	27.1	23.8	25.3	24.0	
Complete 4 years	10.7	10.5	12.0	13.3	15.7	16.5	16.3	14.6	15.0	15.0‡	15.5	14.0	12.1	11.9	11.4	
Region:																
Northeast	10.6	9.6	12.8	13.7	14.1	17.2	16.0	17.2	18.2	14.7‡	16.2	13.4	11.7	13.7	13.0	
Midwest	13.2	12.9	12.8	14.8	19.0	20.0	16.2	14.4	16.1	15.8‡	16.5	15.3	13.1	12.0	12.2	Table continued on next page.
South	11.9	12.2	14.7	15.3	18.4	18.6	20.8	18.3	16.8	17.5‡	19.5	16.8	15.7	14.8	13.9	
West	12.7	14.1	15.6	17.2	17.2	17.4	18.7	15.8	15.7	18.5‡	19.0	16.7	13.8	13.5	12.0	
Population Density:																
Large MSA	11.8	11.4	12.2	13.1	13.5	16.8	16.3	14.6	15.0	17.2‡	15.6	14.3	10.8	10.4	10.9	
Other MSA	12.3	12.3	14.1	16.1	18.5	19.5	18.0	16.6	17.3	15.6‡	17.4	16.5	14.2	15.1	13.2	
Non-MSA	12.4	13.1	15.0	14.6	17.6	18.3	20.8	18.9	17.5	18.1‡	21.5	16.1	17.2	14.5	14.7	
Parental Education: c																
1.0-2.0 (Low)	14.4	16.6	18.1	17.1	20.8	22.7	19.1	21.5	19.2	20.4‡	19.6	21.0	19.1	16.5	15.9	
2.5-3.0	13.7	12.5	14.6	16.3	19.7	19.4	19.9	19.1	19.1	19.4‡	20.3	18.3	16.7	15.6	14.4	
3.5-4.0	12.1	12.7	14.8	15.9	18.3	19.9	19.8	16.4	16.5	17.4‡	19.7	16.1	14.5	14.6	13.7	
4.5-5.0	11.0	10.9	11.7	13.3	15.9	16.6	16.5	14.1	15.4	14.5‡	15.6	13.7	11.2	11.6	11.5	
5.5-6.0 (High)	11.6	10.7	12.2	12.8	13.4	15.4	15.4	14.4	15.6	14.5‡	14.6	12.2	10.5	11.0	10.8	
Race/Ethnicity (2-year average): d																
White	_	13.7	14.4	15.4	17.7	20.0	20.5	19.7	18.7	18.6	19.2‡	18.9 <sup>e</sup>	17.2	15.7	14.9	
African American	_	4.3	4.6	5.4	5.4	4.5	4.8	4.7	4.5	4.2	4.7‡	5.7 <sup>e</sup>	4.7	4.6	4.8	
Hispanic	_	11.8	13.7	16.1	16.9	18.8	19.1	17.5	17.9	17.8	15.8‡	15.7 <sup>e</sup>	15.2	15.1	14.9	

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#### TABLE 5 (cont.)

## ANY ILLICIT DRUG OTHER THAN MARIJUANA: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in Grade 10

	Percent	age who	used in	last 12 n	nonths									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,100		15,200	14,900	15,000		13,000	15,600	14,700		14,300	change
Total	12.7	13.1	11.3	12.2	12.1	11.2	10.8‡	11.2	11.2	10.5	9.8	9.4	9.6	+0.2
Gender:														
Male	12.0	12.9	10.9	11.8	12.3	12.2	11.3‡	12.5	10.4	10.0	9.7	9.3	9.8	+0.4
Female	13.1	13.2	11.5	12.3	11.8	10.0	10.4‡	9.9	11.8	10.7	9.7	9.1	9.2	+0.1
College Plans:														
None or under 4 years	24.7	25.0	22.9	25.4	24.5	24.1	24.5‡	17.2	21.9	19.7	18.4	17.7	18.2	+0.5
Complete 4 years	11.1	11.5	9.8	10.7	10.7	9.7	9.4‡	10.5	10.1	9.5	8.8	8.3	8.3	0.0
Region:														
Northeast	10.4	11.3	8.2	9.0	9.8	9.4	9.3‡	8.5	9.8	9.9	6.8	6.7	7.4	+0.7
Midwest	12.7	13.4	11.8	11.5	12.0	10.8	10.4‡	11.0	11.8	9.0	9.2	10.3	9.6	-0.7
South	13.7	13.3	12.6	13.6	12.4	12.2	12.4‡	12.7	11.9	11.3	10.7	8.7	10.3	+1.7
West	13.3	13.8	11.5	13.7	14.1	11.7	10.3‡	11.6	10.9	11.3	11.5	11.6	10.0	-1.5
Population Density:														
Large MSA	11.5	12.0	9.9	10.7	11.2	10.4	10.0‡	10.4	10.2	10.3	9.5	9.9	9.6	-0.3
Other MSA	12.9	13.4	12.1	13.4	12.6	11.2	10.9‡	11.9	11.3	10.6	10.2	9.4	9.8	+0.4
Non-MSA	14.1	14.0	11.8	11.7	12.7	12.6	11.9‡	10.6	12.7	10.6	9.2	8.7	9.0	+0.4
Parental Education: c														
1.0-2.0 (Low)	16.0	15.6	15.2	18.3	15.8	13.3	16.8‡	15.2	14.1	15.1	11.3	10.5	12.5	+2.0
2.5–3.0	14.9	15.2	13.2	13.6	14.8	13.1	11.7‡	13.5	12.4	12.8	11.1	11.2	10.9	-0.3
3.5-4.0	13.4	14.2	12.7	13.0	12.9	12.0	10.9‡	11.6	13.2	12.3	11.0	9.5	9.8	+0.3
4.5–5.0	10.7	11.6	9.0	9.9	10.2	9.6	9.7‡	9.9	9.2	8.9	9.0	8.5	8.2	-0.3
5.5-6.0 (High)	11.1	9.9	8.6	10.6	9.4	9.2	9.1‡	9.1	9.0	7.4	8.3	8.5	9.1	+0.5
Race/Ethnicity (2-year average): d														
White	14.4	14.5	13.8	12.9	13.0	12.5	11.5	11.2‡	11.5	10.9	10.3	10.0	9.8	-0.2
African American	4.9	4.2	4.1	4.3	5.0	5.5	5.8	6.5‡	8.4	7.8	7.8	6.3	5.2	-1.1 s
Hispanic	13.0	11.8	12.4	13.2	13.5	12.9	12.6	12.4‡	11.7	11.1	11.1	10.6	11.0	+0.4

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

<sup>a</sup>Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

bln 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

December who used in last 12 months

<sup>°</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 6
ANY ILLICIT DRUG OTHER THAN MARIJUANA: a,b

### Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

-						Per	rcentage	who use	ed in las	t 12 mor	nths					
Approximate weighted N =	1975 9,400	<u>1976</u> 15,400	<u>1977</u> 17,100	<u>1978</u> 17,800	<u>1979</u> 15,500	1980 15,900	<u>1981</u> 17,500	<u>1982</u> 17,700	1983 16,300	<u>1984</u> 15,900	1985 16,000	<u>1986</u> 15,200	1987 16,300	1988 16,300	1989 16,700	<u>1990</u> 15,200
Total	26.2	25.4	26.0	27.1	28.2	30.4	34.0	30.1	28.4	28.0	27.4	25.9	24.1	21.1	20.0	17.9
Gender:																
Male	25.9	25.7	26.3	27.9	29.4	30.2	32.8	31.0	28.9	28.2	27.9	26.2	24.3	22.2	21.0	19.2
Female	26.2	24.4	25.3	25.7	26.3	30.0	34.3	28.3	27.3	26.9	26.2	24.8	23.3	19.3	18.5	16.0
College Plans:																
None or under 4 years	_	28.7	30.1	30.0	31.8	35.5	38.3	34.0	32.3	32.9	31.6	31.3	28.8	24.5	25.5	23.1
Complete 4 years	_	20.9	20.8	22.7	23.5	25.5	30.1	26.0	24.7	23.3	24.1	22.2	21.3	19.0	17.2	15.2
Region:																
Northeast	26.0	26.1	27.8	30.7	32.0	32.1	38.0	33.5	31.2	33.8	32.9	29.5	25.5	20.2	19.2	17.1
Midwest	29.2	26.1	27.7	26.8	27.6	30.9	36.1	31.1	28.6	26.1	25.9	25.1	22.7	20.3	21.5	18.0
South	22.5	23.4	22.9	24.0	23.2	25.8	26.1	24.7	23.8	24.2	21.0	20.6	21.1	20.0	18.1	16.9
West	28.2	26.6	26.0	28.8	33.3	35.2	38.7	32.7	33.0	31.3	33.0	31.6	29.5	24.8	22.3	20.4
Population Density:																
Large MSA	30.3	27.5	27.1	30.2	32.1	34.6	38.3	33.8	31.5	30.5	30.4	28.3	24.5	20.7	16.9	16.0
Other MSA	26.3	25.8	26.8	27.3	28.7	30.1	33.3	30.0	29.7	27.8	26.9	26.4	24.5	22.7	20.9	18.5
Non-MSA	23.4	23.3	24.2	24.2	24.7	27.5	31.4	27.0	24.4	26.2	25.5	23.1	23.0	18.4	21.1	18.4
Parental Education: c																
1.0-2.0 (Low)	_	23.2	23.2	24.7	25.2	28.2	29.2	25.7	25.6	27.3	25.8	23.2	21.5	19.7	18.2	15.2
2.5-3.0	_	25.6	27.0	26.4	27.6	30.7	33.5	30.4	28.1	28.2	27.4	27.0	24.2	20.5	20.0	17.9
3.5-4.0	_	26.1	26.2	27.8	29.2	30.7	34.7	30.9	28.6	29.3	28.9	26.6	24.7	20.5	21.4	19.1
4.5-5.0	_	27.2	25.9	27.3	28.7	29.9	34.8	29.4	30.0	26.2	27.1	24.9	23.8	21.7	19.3	17.5
5.5-6.0 (High)	_	25.6	24.8	28.6	30.4	30.8	36.7	31.3	29.0	26.2	23.8	23.8	24.9	22.0	19.6	17.2
Race/Ethnicity (2-year average): d																
White	_	_	26.6	27.7	28.8	30.6	34.5	32.1	31.2	30.2	29.6	28.2	26.6	24.4	22.5	21.0
African American	_	_	14.2	13.4	13.0	13.8	13.2	14.5	15.2	12.9	12.0	12.1	11.1	10.3	8.6	6.5
Hispanic	_	_	23.8	23.5	23.3	24.7	27.6	25.5	25.2	26.2	27.2	26.2	23.0	20.5	17.7	15.6

TABLE 6 (cont.)
ANY ILLICIT DRUG OTHER THAN MARIJUANA: a,b

### Trends in **Annual** Prevalence of Use by Subgroups in **Grade 12**

						Percen	tage who	used in	last 12	months					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	1997 15,400	1998 15,200	1999 13,600	2000 12,800	2001 <sup>e</sup> 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	20.7	20.4‡	21.6	20.9	19.8	20.5	19.7
Gender:															
Male	17.0	15.5	17.8	18.5	20.7	21.7	21.7	21.7	22.5	21.5‡	23.3	22.0	21.1	21.5	21.4
Female	14.8	13.8	15.8	16.9	17.3	16.8	18.8	18.0	18.5	18.6‡	19.0	19.0	17.9	18.7	17.5
College Plans:															
None or under 4 years	20.1	19.5	19.8	22.9	23.9	24.2	25.8	26.5	24.4	24.7‡	24.5	27.2	26.5	26.0	25.3
Complete 4 years	14.3	13.0	15.9	16.0	17.5	17.9	18.4	17.8	19.4	18.5‡	19.9	19.0	17.4	18.4	18.0
Region:															
Northeast	15.6	14.7	18.6	17.2	20.2	22.9	24.1	20.7	19.5	21.7‡	22.4	21.5	19.3	20.4	18.0
Midwest	17.4	15.5	16.4	20.1	19.1	19.2	18.9	19.8	20.9	18.9‡	24.0	19.9	18.7	19.1	21.4
South	14.4	14.0	16.0	17.3	19.0	18.6	19.8	20.3	21.2	19.0‡	18.6	21.3	19.4	20.8	20.5
West	17.9	15.8	18.5	17.3	19.9	19.2	20.9	20.0	20.8	23.2‡	22.6	21.1	22.4	21.9	18.0
Population Density:															
Large MSA	14.2	13.5	15.1	16.7	20.2	18.9	18.6	19.0	17.6	19.4‡	23.6	20.6	15.9	18.0	18.6
Other MSA	17.9	14.9	18.2	19.2	19.2	20.2	21.5	20.4	21.6	20.9‡	21.2	21.6	22.0	22.3	20.6
Non-MSA	14.9	16.1	16.8	17.2	18.7	19.8	21.2	21.3	22.4	20.7‡	20.3	20.2	20.9	19.7	19.3
Parental Education: c															
1.0-2.0 (Low)	17.4	14.9	15.6	17.8	19.4	16.9	19.9	20.0	22.2	20.0‡	17.3	17.8	19.4	18.7	14.8
2.5–3.0	16.8	15.0	16.1	18.5	19.4	19.7	19.4	20.1	21.0	19.9‡	20.9	20.3	19.6	20.0	20.5
3.5-4.0	16.3	15.0	17.8	17.6	19.2	19.8	20.4	21.0	21.9	20.5‡	24.5	22.0	21.7	23.0	21.5
4.5-5.0	14.6	14.3	17.5	18.4	19.4	19.3	21.0	19.1	19.3	20.1‡	20.1	21.2	18.5	19.7	19.7
5.5-6.0 (High)	14.9	14.3	17.6	16.5	18.3	20.2	21.7	18.9	19.4	20.3‡	18.7	19.8	17.0	17.6	17.5
Race/Ethnicity (2-year average): °	i														
White	18.7	17.1	17.9	19.4	20.3	21.2	22.3	23.1	22.9	22.7	23.0‡	24.1 <sup>f</sup>	23.0	22.8	22.7
African American	5.7	5.3	4.8	6.1	6.9	6.0	6.4	7.1	6.8	6.4	6.3‡	6.0 <sup>f</sup>	6.3	6.5	7.1
Hispanic	15.8	15.1	15.6	16.5	17.9	19.7	18.9	17.5	18.5	21.2	18.2‡	16.1 <sup>f</sup>	16.0	16.2	16.7

# TABLE 6 (cont.) ANY ILLICIT DRUG OTHER THAN MARIJUANA: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months												_	
•		0007	0000	0000	0040	2011	0040	0040	2011	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 14 200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13 700	2013 12,600	2014 12 400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	<u>change</u>
Total	19.2	18.5	18.3	17.0	17.3	17.6	17.0‡	17.8	15.9	15.2	14.3	13.3	12.4	-0.9
Gender:									10.0	.0.2		.0.0		0.0
Male	19.7	20.0	19.9	18.8	19.3	19.1	18.4‡	18.9	16.9	15.7	15.4	14.9	13.9	-1.1
Female	18.3	16.7	16.2	14.9	15.0	15.5	14.9‡	15.9	14.2	14.1	12.5	11.3	9.7	-1.6 s
College Plans:														
None or under 4 years	25.4	26.0	25.0	22.1	23.6	25.1	19.4‡	24.4	19.8	17.7	15.4	15.7	16.0	+0.4
Complete 4 years	17.4	16.7	16.5	15.7	15.7	15.8	16.1‡	16.2	14.5	14.3	13.6	12.3	10.8	-1.5 s
Region:														
Northeast	20.3	19.4	18.9	16.8	17.6	16.4	15.1‡	16.7	13.9	13.1	12.3	11.5	12.1	+0.6
Midwest	17.9	18.4	16.8	19.1	16.9	17.5	17.2‡	18.9	16.2	15.0	15.7	12.1	12.2	+0.1
South	19.7	18.8	19.1	16.4	17.4	16.2	16.0‡	17.5	17.2	15.2	14.0	13.6	12.2	-1.4
West	19.1	17.3	18.1	15.6	17.4	20.6	19.5‡	17.9	15.1	16.9	15.0	15.1	13.3	-1.7
Population Density:														
Large MSA	20.1	18.4	16.9	15.9	17.3	16.6	18.3‡	18.1	14.6	14.8	14.3	12.5	11.0	-1.5
Other MSA	18.7	18.1	18.2	17.4	17.7	18.6	17.2‡	18.8	17.7	15.9	14.5	13.9	12.9	-1.0
Non-MSA	18.9	19.5	19.8	17.4	16.3	16.7	14.7‡	15.0	13.0	14.1	13.8	13.4	14.0	+0.6
Parental Education: c														
1.0-2.0 (Low)	19.7	16.7	16.4	14.7	14.9	16.0	16.5‡	15.9	14.7	16.5	13.0	10.7	11.4	+0.7
2.5–3.0	19.4	19.7	17.7	17.3	17.7	16.6	18.0‡	18.6	16.8	14.4	13.2	14.6	12.3	-2.3
3.5-4.0	20.2	18.4	18.7	17.6	18.4	18.8	17.6‡	18.3	15.7	15.8	15.4	13.4	12.4	-1.0
4.5–5.0	18.6	18.5	18.2	17.8	16.8	16.6	16.8‡	18.7	15.1	14.7	14.5	12.5	12.3	-0.2
5.5-6.0 (High)	18.0	17.4	17.9	15.4	15.7	18.3	15.2‡	16.3	16.8	16.0	14.0	14.4	12.1	-2.3
Race/Ethnicity (2-year average): d														
White	22.0	21.6	21.5	20.5	19.9	20.0	19.6	18.7‡	17.6	16.1	15.5	14.8	13.9	-0.9
African American	7.2	7.0	7.0	6.8	8.3	8.7	7.6	9.5‡	13.0	11.2	10.3	9.1	7.5	-1.5 s
Hispanic	17.3	15.8	13.7	13.6	12.8	12.8	13.6	14.7‡	15.1	14.0	13.7	12.7	10.8	-1.8 ss

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

<sup>&</sup>lt;sup>a</sup>Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.

<sup>&</sup>lt;sup>b</sup>Beginning in 1982 the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines.

The prevalence-of-use rate dropped slightly as a result of this methodological change.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

eIn 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

TABLE 7

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						F	Percenta	ge who e	ever used	b					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	<u>2005</u>
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	10.2	11.2	12.6	16.7	19.9	23.1	22.6	22.2	22.0	20.3	20.4	19.2	17.5	16.3	16.5
Gender:															
Male	11.9	11.9	14.5	19.6	22.5	25.5	24.7	24.3	24.3	22.2	23.6	22.2	19.3	17.6	18.0
Female	8.3	10.3	10.8	13.7	17.2	20.5	20.2	19.6	19.8	18.1	17.2	16.2	15.6	14.9	14.8
College Plans:															
None or under 4 years	22.9	24.5	27.9	33.1	36.2	41.6	41.8	43.5	44.1	41.2	40.8	39.8	38.0	36.9	38.5
Complete 4 years	8.1	9.0	10.4	14.3	17.7	20.2	19.9	19.4	19.1	17.6	17.9	17.1	15.2	14.1	14.0
Region:															
Northeast	7.4	9.2	8.8	15.3	16.0	19.9	20.2	15.6	18.2	17.3	18.7	15.2	13.7	13.6	12.8
Midwest	9.9	9.4	11.5	15.6	21.7	23.1	21.3	23.7	24.6	21.0	18.3	17.9	16.8	15.4	17.6
South	10.8	11.8	12.5	14.9	19.4	22.1	22.7	23.9	23.0	20.5	22.4	22.1	20.0	18.0	18.5
West	12.4	15.1	18.7	22.7	22.4	27.4	25.9	23.1	20.6	21.5	20.7	19.5	17.5	16.8	15.0
Population Density:															
Large MSA	8.9	10.5	10.6	16.7	19.6	24.0	21.6	20.4	20.5	18.8	17.3	17.3	17.1	15.0	15.7
Other MSA	11.4	12.6	15.0	19.8	21.2	24.6	23.2	22.9	21.2	19.4	22.3	19.7	17.1	17.0	17.1
Non-MSA	9.3	9.4	10.1	11.0	18.1	19.1	22.4	22.7	25.6	23.8	20.3	20.7	18.9	16.7	16.3
Parental Education: a															
1.0-2.0 (Low)	20.6	19.9	18.6	24.9	28.7	26.6	31.6	30.6	35.1	32.7	31.8	31.2	31.1	25.7	25.3
2.5–3.0	11.9	13.6	14.6	18.1	23.0	25.9	25.7	26.0	28.3	25.0	25.3	25.5	22.2	21.7	23.0
3.5-4.0	10.1	10.4	13.3	16.8	21.4	25.2	25.0	23.9	21.7	20.7	22.0	19.8	18.3	17.0	17.5
4.5–5.0	6.6	7.9	10.0	13.8	16.3	20.1	19.8	17.9	16.2	14.8	15.3	14.9	12.7	12.7	11.7
5.5-6.0 (High)	6.7	7.3	8.7	14.1	14.9	18.8	15.5	16.8	15.2	14.6	12.8	11.8	11.3	10.5	9.8
Race (2-year average): b															
White	_	9.9	11.0	12.9	16.6	20.5	22.0	21.1	20.0	19.0	18.5	18.0	16.6	15.1	14.6
African American	_	7.4	9.3	13.2	17.1	19.7	21.7	23.0	23.9	23.8	22.2	20.2	19.7	19.9	20.5
Hispanic	_	19.0	20.3	23.3	26.3	27.2	28.6	29.6	29.7	27.1	26.2	27.4	26.1	23.7	20.5

TABLE 7 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

	Percentage who ever used													
	2006	2007	2009	2000	2010	2011	2012	2012	2014	2015	2016	2017	2018	2017-2018
Approximate weighted N =	2006 16.500	2007 16,100	2008 15,700	2009 15,000	2010 15,300	16,000	2012 15,100	2013 14,600	14,600	<u>2015</u> 14,400	2016 16,900	2017 15,300	<u>2016</u> 14,000	<u>change</u>
Total	15.7	14.2	14.6	15.7	17.3	16.4	15,700	16.5	15.6	15.5	12.8	13.5	13.9	+0.4
Gender:	15.7	14.2	14.0	15.7	17.3	10.4	15.2	10.5	15.0	15.5	12.0	13.5	13.9	+0.4
Male	17.1	15.2	16.3	17.9	18.9	18.1	16.5	17.0	15.8	16.0	12.8	13.4	14.4	+1.0
Female		12.8				14.1			14.7	14.6	12.8	13.4	13.3	0.0
	14.0	12.8	12.7	13.4	15.8	14.1	13.6	15.6	14.7	14.6	12.8	13.3	13.3	0.0
College Plans:	05.4	05.0	05.0	00.0	00.0	05.5	20.0	04.0	00.0	20.0	07.0	00.0	00.0	.0.0
None or under 4 years	35.4	35.3	35.0	32.2	36.8	35.5	32.9	34.3	29.2	30.0	27.8	26.3	26.9	+0.6
Complete 4 years	13.6	12.2	12.7	14.3	15.7	14.8	13.8	15.2	14.4	14.1	11.5	12.0	12.1	+0.1
Region:														
Northeast	12.6	8.8	11.7	14.2	15.5	10.4	10.0	13.1	12.8	10.9	8.6	10.1	9.4	-0.7
Midwest	15.6	13.5	16.6	15.3	15.1	13.8	12.2	13.3	14.5	16.4	13.0	11.5	11.1	-0.3
South	18.4	16.6	15.8	17.2	19.9	17.8	17.6	19.4	15.8	15.9	14.0	13.7	13.5	-0.2
West	13.6	14.0	12.9	14.9	16.6	21.5	18.3	17.4	18.1	16.7	13.7	17.3	20.5	+3.2
Population Density:														
Large MSA	14.7	11.6	12.9	13.1	16.5	14.7	14.4	17.4	17.6	15.6	12.5	12.5	14.0	+1.4
Other MSA	16.2	15.3	15.9	17.1	18.3	17.8	15.8	15.0	14.7	15.9	12.4	14.6	14.0	-0.7
Non-MSA	16.2	15.4	14.2	16.3	16.3	16.1	15.3	18.2	14.3	14.1	14.4	12.0	13.5	+1.5
Parental Education: a														
1.0-2.0 (Low)	25.6	26.6	24.5	24.1	26.2	27.8	27.8	29.1	25.2	25.3	20.9	21.6	22.4	+0.8
2.5-3.0	20.8	19.8	19.7	21.2	23.1	23.0	22.2	23.4	21.8	20.5	18.0	18.9	20.0	+1.0
3.5-4.0	17.2	15.5	16.0	17.2	18.9	18.1	16.7	18.6	18.0	17.3	14.3	14.8	16.3	+1.5
4.5-5.0	11.1	9.2	11.0	11.4	13.3	11.7	10.6	11.6	10.4	9.6	10.0	9.2	9.0	-0.1
5.5-6.0 (High)	9.3	6.5	8.3	9.7	10.3	8.6	7.6	9.4	10.0	9.4	6.6	8.1	7.1	-1.0
Race (2-year average): b														
White	14.1	12.9	12.5	13.3	14.4	14.3	12.7	11.7	11.4	10.9	10.0	9.5	9.9	+0.3
African American	19.5	16.4	15.9	18.1	19.9	18.9	17.2	18.9	18.8	17.6	17.2	17.0	15.6	-1.4
Hispanic	19.3	19.1	18.1	18.5	20.4	21.8	22.8	22.1	21.2	20.0	17.5	15.5	16.4	+0.9

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 8

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

Percentage who ever used 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 14,800 14,800 15,300 15,800 17,000 15,600 15,500 15,000 13,600 14,300 14,000 14,300 15,800 16,200 Approximate weighted N = 16,400 Total 23.4 21.4 24.4 30.4 34.1 39.8 42.3 39.6 40.9 40.3 40.1 38.7 36.4 35.1 34.1 Gender: Male 25.3 23.3 27.0 33.6 36.2 42.3 45.1 41.6 43.3 44.2 43.9 41.7 38.5 37.2 36.1 Female 21.4 19.3 21.7 26.8 31.6 37.3 39.3 37.6 38.4 36.3 36.4 35.8 34.1 32.9 31.8 College Plans: None or under 4 years 37.7 34.6 39.4 44.9 49.5 55.9 60.6 56.1 59.6 58.1 56.7 57.5 53.3 51.7 50.5 Complete 4 years 20.2 18.4 21.1 27.1 31.4 37.0 39.2 36.5 37.8 37.5 37.4 35.7 33.5 32.8 31.7 Region: Northeast 22.3 19.3 26.5 30.0 33.1 39.6 41.2 41.9 41.0 37.4 38.8 38.2 36.1 36.0 35.0 Midwest 23.2 20.8 21.7 27.4 30.8 38.0 41.3 35.7 40.3 38.0 38.8 36.6 32.3 32.1 33.4 South 21.3 19.4 23.1 29.8 34.9 41.3 41.9 39.8 39.6 39.8 39.6 38.0 38.9 37.4 35.6 West 27.4 37.8 27.4 29.4 36.7 38.4 39.4 45.7 41.4 43.6 46.9 45.2 43.2 34.8 31.5 Population Density: 33.2 Large MSA 23.6 20.5 23.5 30.9 32.4 38.3 42.2 36.8 40.3 39.9 36.4 37.0 35.6 33.6 25.5 37.2 44.1 41.7 42.0 41.2 42.4 35.1 Other MSA 24.9 22.0 33.6 42.5 40.9 36.5 34.7 Non-MSA 21.1 23.2 24.0 30.0 36.2 39.1 38.8 39.2 38.9 37.2 37.0 33.9 20.6 39.8 36.4 Parental Education: a 1.0-2.0 (Low) 30.3 28.7 32.0 35.8 39.3 40.8 46.2 43.2 49.0 46.1 44.0 45.9 43.1 45.6 40.1 2.5-3.0 26.2 22.9 26.0 32.8 38.0 42.3 45.7 45.2 45.2 45.7 41.9 40.3 40.0 44.3 44.8 3.5 - 4.023.4 21.4 24.6 30.8 35.5 42.4 44.8 40.1 40.9 44.0 40.6 38.1 37.9 37.6 34.9 4.5-5.0 20.3 18.8 20.4 31.7 35.0 30.0 30.4 27.0 37.4 38.9 36.8 35.7 37.3 35.2 31.2 5.5-6.0 (High) 20.0 17.7 21.9 25.9 26.8 34.7 35.4 33.8 36.2 32.7 33.8 31.4 29.7 27.5 28.2 Race (2-year average): b White 23.0 23.2 27.2 32.3 37.1 41.1 40.9 39.9 40.1 39.7 39.3 37.4 35.1 33.7 22.1 28.6 38.3 African American 16.2 16.2 34.3 38.1 37.1 37.3 39.5 40.1 38.1 36.9 38.0 Hispanic 26.9 28.8 33.5 37.5 42.2 46.5 46.6 46.5 46.0 44.9 41.9 39.4 39.9 38.8

TABLE 8 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

	Percentage who ever used													
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	31.8	31.0	29.9	32.3	33.4	34.5	33.8	35.8	33.7	31.1	29.7	30.7	32.6	+1.8
Gender:														
Male	32.9	33.5	31.7	35.8	36.9	37.8	37.1	38.9	35.2	31.7	29.2	29.9	32.4	+2.5
Female	30.6	28.4	28.0	29.0	29.8	31.2	30.6	32.6	31.9	30.2	29.8	31.0	32.5	+1.5
College Plans:														
None or under 4 years	51.6	50.3	51.7	52.8	54.5	54.1	51.3	53.3	50.5	48.3	44.0	42.5	46.8	+4.4
Complete 4 years	29.2	28.3	27.0	30.0	30.9	32.2	31.9	33.9	31.8	29.3	28.1	28.9	30.4	+1.5
Region:														
Northeast	30.6	30.6	31.5	29.4	30.8	33.7	35.7	32.7	31.8	31.3	28.2	30.1	34.1	+4.0 s
Midwest	30.7	29.9	27.8	28.5	31.1	31.9	28.6	32.8	30.0	26.9	28.4	29.6	29.2	-0.4
South	33.0	30.7	31.1	35.0	35.2	35.7	34.5	38.6	34.6	31.9	30.3	29.6	32.0	+2.4
West	32.3	32.7	29.0	34.9	35.4	36.4	36.7	37.8	37.4	33.9	31.4	33.9	35.8	+1.9
Population Density:														
Large MSA	29.6	31.0	30.1	31.4	31.2	32.5	33.8	34.1	33.3	30.7	29.2	31.2	34.8	+3.6 s
Other MSA	31.7	30.9	30.2	33.4	35.3	36.5	34.1	37.5	34.4	31.3	29.1	30.9	33.4	+2.4
Non-MSA	35.3	31.0	28.6	31.2	32.7	33.7	32.9	34.4	32.5	31.1	32.4	29.5	27.2	-2.3
Parental Education: a														
1.0-2.0 (Low)	41.7	37.4	39.7	43.8	43.6	44.4	47.5	45.3	40.9	42.6	34.7	35.8	38.3	+2.5
2.5-3.0	39.1	37.8	35.8	37.2	40.4	41.6	39.8	43.7	41.2	38.8	37.0	36.4	39.2	+2.7
3.5-4.0	33.0	32.8	32.3	33.9	35.5	36.9	35.6	38.1	38.0	35.3	31.7	33.1	34.9	+1.8
4.5-5.0	26.7	26.3	24.0	28.0	26.6	28.7	30.4	31.5	27.9	26.2	26.1	27.4	28.3	+0.9
5.5-6.0 (High)	25.0	22.2	21.8	25.1	27.0	25.9	26.2	26.5	25.4	22.3	24.4	24.8	26.1	+1.3
Race (2-year average): b														
White	32.4	31.2	29.6	29.7	31.3	32.1	31.8	31.7	31.6	29.8	28.9	28.7	28.8	0.0
African American	36.0	32.9	30.0	29.7	32.6	37.0	38.3	38.7	38.3	35.6	33.0	31.7	32.4	+0.7
Hispanic	34.7	32.1	34.8	37.8	38.9	38.9	40.4	42.9	42.1	39.3	35.2	33.5	35.3	+1.8

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 9

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Davaa		h a a	
Percen	rade w	ho ever	usea

<del>-</del>																
	<u>1975</u>	<u>1976</u>	<u> 1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	47.3	52.8	56.4	59.2	60.4	60.3	59.5	58.7	57.0	54.9	54.2	50.9	50.2	47.2	43.7	40.7
Gender:																
Male	52.7	58.9	61.9	64.4	65.0	64.4	62.5	61.5	59.9	57.9	56.6	53.3	52.0	49.8	46.6	43.6
Female	42.7	46.1	50.8	53.9	55.7	56.1	56.2	55.5	53.4	51.3	51.5	48.2	48.0	44.5	40.4	37.3
College Plans:																
None or under 4 years	_	55.3	59.6	61.4	62.9	64.3	63.5	63.8	61.2	60.7	59.1	56.0	57.0	53.6	51.5	48.0
Complete 4 years	_	48.7	52.0	55.5	56.8	56.8	55.9	54.0	52.2	49.7	50.2	47.5	46.4	44.0	39.7	37.2
Region:																
Northeast	56.3	60.7	62.5	66.7	69.8	67.4	67.8	64.6	63.7	64.0	62.2	56.8	55.7	49.6	45.4	44.5
Midwest	46.9	52.1	56.0	60.6	60.9	60.2	59.9	59.8	57.0	52.3	53.8	52.0	50.1	48.0	46.8	42.6
South	38.8	45.7	51.4	52.4	51.6	53.6	50.8	51.1	50.8	49.1	44.5	43.7	43.6	42.4	38.2	35.4
West	52.5	55.9	57.1	59.0	62.1	62.9	63.2	61.7	59.2	59.8	60.4	53.8	55.1	52.0	48.4	43.0
Population Density:																
Large MSA	58.1	60.1	62.5	66.2	68.5	67.9	65.9	64.0	62.3	59.3	59.2	55.8	53.2	47.8	41.4	40.8
Other MSA	48.1	52.3	57.7	60.2	62.0	61.0	59.6	59.6	58.8	56.0	54.6	51.5	52.0	49.7	45.0	42.5
Non-MSA	39.6	47.8	49.7	51.9	52.1	53.9	54.6	53.1	50.5	49.8	49.3	45.9	43.5	41.9	43.2	36.9
Parental Education: a																
1.0-2.0 (Low)	42.3	47.8	50.1	53.1	56.5	57.3	56.5	55.4	56.2	52.6	52.9	47.0	46.1	48.0	39.5	38.1
2.5–3.0	47.0	54.4	56.9	59.1	60.1	61.0	59.0	58.8	56.7	55.6	54.5	52.1	51.6	47.0	45.5	42.2
3.5–4.0	45.6	53.2	58.8	60.5	61.9	60.8	60.0	60.7	56.6	56.3	55.6	51.7	51.0	47.9	45.6	42.1
4.5–5.0	48.5	55.5	57.6	61.6	61.8	60.9	60.9	59.8	58.0	53.2	54.5	50.7	49.7	47.7	42.2	40.4
5.5-6.0 (High)	46.9	57.3	56.9	63.3	61.5	62.0	61.6	58.4	56.7	53.7	50.0	49.5	49.5	45.0	40.7	37.9
Race (2-year average): b																
White	_	_	55.1	58.7	60.6	61.3	61.3	60.7	58.8	56.5	55.5	53.8	52.2	51.1	48.3	45.4
African American	_	_	48.5	50.8	50.7	51.4	51.1	51.4	53.9	52.6	49.7	46.9	42.6	38.8	33.4	27.7
Hispanic	_	_	55.6	54.7	55.3	56.7	53.9	53.9	54.4	54.5	53.4	51.0	47.7	46.0	42.8	38.5

TABLE 9 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

#### Percentage who ever used

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	<u>2005</u>
Approximate weighted N =	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	36.7	32.6	35.3	38.2	41.7	44.9	49.6	49.1	49.7	48.8	49.0	47.8	46.1	45.7	44.8
Gender:															
Male	40.3	36.3	38.9	42.8	45.2	48.6	52.0	53.2	52.1	51.5	51.9	50.7	50.1	48.5	49.1
Female	32.8	28.6	31.2	33.7	37.7	40.7	46.6	44.6	47.0	45.7	45.7	44.7	42.0	42.6	40.2
College Plans:															
None or under 4 years	43.6	41.8	41.7	44.6	48.8	53.1	56.5	55.6	57.2	55.2	55.9	55.5	55.6	52.6	54.7
Complete 4 years	33.8	28.8	32.7	35.6	38.8	41.8	47.2	46.4	47.0	45.9	46.6	45.6	42.9	43.5	42.1
Region:															
Northeast	40.4	34.5	41.1	44.3	44.5	48.9	54.3	54.1	50.8	52.5	54.9	52.4	50.0	51.2	50.4
Midwest	39.3	32.1	34.5	37.3	43.3	45.4	47.0	45.1	48.1	46.9	48.2	48.2	48.2	45.6	44.0
South	31.2	29.9	32.9	36.1	39.2	41.9	46.3	48.3	48.8	43.6	44.9	44.6	40.9	42.0	43.1
West	39.3	36.8	35.7	37.7	41.5	45.3	54.6	51.0	52.3	56.1	51.2	48.3	48.6	46.5	43.4
Population Density:															
Large MSA	36.1	32.5	36.5	38.6	44.1	46.4	48.9	50.7	50.3	49.1	50.1	48.1	43.4	42.8	45.5
Other MSA	41.4	32.6	36.3	40.7	42.1	47.8	52.6	50.3	50.6	50.2	49.1	50.5	49.5	49.3	45.9
Non-MSA	29.4	32.7	32.7	33.2	38.3	38.2	44.5	44.5	47.4	45.9	47.5	42.2	43.5	42.2	41.8
Parental Education: a															
1.0-2.0 (Low)	38.0	36.6	34.6	35.4	39.8	42.1	46.0	45.6	50.5	51.9	48.8	42.8	44.5	43.1	39.6
2.5-3.0	36.8	32.9	34.8	38.5	41.8	44.8	49.7	50.2	51.5	50.4	50.5	49.4	47.8	47.3	47.8
3.5-4.0	36.8	33.2	36.7	39.3	41.7	45.0	49.3	50.5	51.2	49.3	50.4	50.1	47.1	49.0	47.5
4.5–5.0	35.5	30.0	34.3	38.3	40.7	45.5	49.7	48.0	46.2	45.8	47.9	47.1	45.4	43.3	43.4
5.5-6.0 (High)	38.0	29.6	34.9	37.6	43.2	44.2	51.1	47.8	47.6	47.2	45.1	45.4	41.9	42.8	40.7
Race (2-year average): b															
White	41.3	36.3	35.6	38.3	41.1	43.9	48.3	50.9	50.3	49.4	49.8	49.9	48.8	48.2	47.5
African American	24.9	23.0	24.1	29.4	34.7	39.0	41.3	42.7	45.1	45.7	43.5	41.7	40.0	39.1	39.0
Hispanic	39.9	40.5	36.8	36.6	39.8	43.5	48.6	50.2	51.1	55.0	52.0	47.6	44.2	42.7	42.8

TABLE 9 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

	Percentage who ever used													
	2000	2007	2000	2000	2040	2011	2042	2042	2014	2015	2046	2047	2040	2017-2018
Ammayimata waightad N	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	•	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	4.4
Total Gender:	42.3	41.8	42.6	42.0	43.8	45.5	45.2	45.5	44.4	44.7	44.5	45.0	43.6	-1.4
	40.7	44.0	44.0	45.4	47.4	40.7	40.0	40.4	40.0	40.0	45.5	45.7	40.5	0.4
Male	43.7	44.8	44.8	45.4	47.1	48.7	49.2	49.1	46.2	46.2	45.5	45.7	43.5	-2.1
Female	40.6	38.6	40.1	38.1	40.0	41.8	40.5	41.3	42.3	43.3	43.3	43.9	42.8	-1.2
College Plans:														
None or under 4 years	53.3	49.8	54.2	50.4	54.7	52.6	53.6	54.1	52.0	51.0	48.2	49.0	48.9	0.0
Complete 4 years	39.2	39.5	39.6	39.8	41.0	43.5	43.0	43.1	42.0	43.1	43.0	43.6	41.8	-1.8
Region:														
Northeast	48.5	48.9	46.7	45.4	50.3	48.8	47.3	49.5	46.7	49.2	46.6	48.0	48.3	+0.3
Midwest	42.5	42.5	41.3	42.1	40.8	43.0	39.4	38.8	43.5	41.0	41.8	46.1	45.0	-1.2
South	41.0	40.0	42.0	40.2	41.6	42.8	43.5	45.0	43.2	41.3	42.0	42.0	38.6	-3.5
West	38.9	37.9	42.0	41.7	45.1	50.1	52.1	50.0	45.1	50.5	50.0	46.8	47.3	+0.5
Population Density:														
Large MSA	44.4	43.6	44.4	45.6	45.4	47.9	48.1	48.5	44.1	47.2	46.5	47.4	44.4	-3.0
Other MSA	42.3	41.2	41.2	40.4	45.1	46.3	45.4	46.5	46.6	44.5	44.9	44.1	42.9	-1.2
Non-MSA	39.5	40.2	43.8	40.8	38.2	40.3	40.1	38.5	39.2	40.8	40.8	43.2	43.8	+0.6
Parental Education: a														
1.0-2.0 (Low)	46.8	44.6	42.6	42.7	44.5	48.3	52.6	50.8	48.4	48.8	47.7	43.2	42.9	-0.3
2.5-3.0	46.1	45.0	46.3	44.2	45.6	48.6	48.2	49.0	48.9	48.6	46.5	48.5	46.9	-1.6
3.5-4.0	43.3	41.5	42.9	44.0	45.6	47.3	46.3	47.9	45.5	46.8	47.4	47.1	46.3	-0.7
4.5-5.0	37.1	39.4	40.1	38.7	42.8	42.2	42.7	41.4	41.3	41.1	41.8	43.5	42.0	-1.5
5.5-6.0 (High)	40.5	39.0	40.2	38.4	36.9	40.9	38.6	39.0	39.0	39.5	37.9	40.5	38.6	-1.8
Race (2-year average): b														
White	45.3	43.3	43.4	43.3	43.3	44.8	45.2	44.0	43.7	43.8	43.6	44.3	44.2	-0.1
African American	38.9	37.7	38.0	40.0	41.0	41.8	42.1	43.8	43.7	41.1	41.8	43.7	43.7	+0.1
Hispanic	43.1	41.3	40.1	40.7	42.3	45.6	48.7	50.7	48.7	48.2	50.3	47.7	43.7	-4.0 ss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 10

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 8

						Percer	itage wh	o used ir	last 12	months					
	<u>1991</u>	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	6.2	7.2	9.2	13.0	15.8	18.3	17.7	16.9	16.5	15.6	15.4	14.6	12.8	11.8	12.2
Gender:															
Male	7.3	7.4	10.5	15.1	17.7	19.6	19.2	18.0	18.1	16.7	18.1	17.0	13.9	12.3	13.0
Female	5.1	6.9	8.0	10.9	13.7	16.9	16.1	15.3	14.9	14.3	12.8	12.4	11.5	11.2	11.4
College Plans:															
None or under 4 years	15.8	17.5	22.4	27.7	30.3	34.6	34.5	35.0	34.9	33.6	34.4	33.1	31.3	29.0	30.5
Complete 4 years	4.6	5.5	7.3	11.0	13.8	15.8	15.5	14.5	14.0	13.4	13.2	12.7	10.7	10.0	10.2
Region:															
Northeast	5.0	5.8	6.2	12.1	13.0	15.3	16.2	11.7	14.4	13.2	14.5	11.3	10.0	10.2	9.8
Midwest	5.9	6.0	8.0	12.0	17.5	18.6	17.0	18.1	18.5	16.6	14.1	14.3	12.3	10.9	12.8
South	6.1	7.3	9.0	11.4	14.7	17.1	17.2	17.9	16.7	15.2	16.8	16.3	14.4	12.9	13.5
West	7.8	10.3	14.8	18.1	18.4	22.5	20.6	18.2	15.6	16.9	15.5	15.3	12.9	12.3	11.4
Population Density:															
Large MSA	5.2	6.7	8.0	13.1	15.6	18.3	16.4	16.0	15.6	14.5	12.4	12.7	11.5	10.8	11.7
Other MSA	7.2	8.3	10.9	15.7	17.2	19.5	18.2	17.4	15.4	14.8	17.4	15.2	12.9	12.4	12.9
Non-MSA	5.3	5.7	7.2	8.0	13.7	15.8	18.0	16.9	19.7	18.5	15.3	16.1	14.1	11.9	11.6
Parental Education: a															
1.0-2.0 (Low)	13.2	12.7	13.6	18.7	23.0	20.2	24.8	25.0	25.8	26.2	26.0	24.2	22.5	19.7	18.2
2.5-3.0	7.0	7.7	10.7	14.5	17.9	20.6	20.3	20.0	20.8	19.4	19.5	18.7	16.5	15.4	17.4
3.5-4.0	6.2	7.0	9.7	13.2	17.2	20.2	19.5	17.7	16.3	15.9	16.7	15.4	13.7	12.8	12.8
4.5-5.0	3.7	5.4	7.4	10.9	12.7	16.2	15.7	13.7	11.7	10.8	11.1	11.4	8.9	9.0	8.9
5.5-6.0 (High)	4.6	5.2	6.4	11.0	13.0	14.7	12.1	12.7	12.4	11.5	9.4	9.7	8.0	7.7	7.1
Race/Ethnicity (2-year average): b															
White	_	6.4	7.8	10.0	13.5	16.7	17.8	16.7	15.4	14.9	14.7	14.5	13.0	11.5	11.1
African American	_	4.1	5.7	8.9	11.9	14.0	15.3	16.0	16.3	16.1	14.6	12.7	12.6	12.8	13.6
Hispanic		11.9	13.9	18.1	20.4	20.8	21.8	22.7	22.8	20.1	19.9	21.1	19.1	16.7	14.7

TABLE 10 (cont.)

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 8

	Percentage who used in last 12 months										2017 2018			
	2006	2007	2000	2000	2010	2011	2012	2012	2014	2015	2016	2017	2010	2017-2018
Approximate weighted N =	2006 16.500	2007 16.100	2008 15.700	2009 15,000	2010 15,300	2011 16,000	2012 15,100	2013 14.600	2014 14.600	2015 14.400	2016 16.900	2017 15.300	2018 14.000	change
Total	11.7	10.3	10.9	11.8	13.7	12.5	11.4	12.7	11.7	11.8	9.4	10.1	10.5	+0.3
Gender:						.2.0					0		.0.0	
Male	12.7	11.2	12.2	13.5	15.0	14.0	12.2	12.6	11.9	11.9	9.3	9.6	10.6	+1.0
Female	10.4	9.3	9.5	10.0	12.4	10.6	10.4	12.5	11.0	11.4	9.3	10.3	10.2	-0.2
College Plans:														
None or under 4 years	28.8	28.1	27.7	26.7	30.7	27.6	28.4	27.8	24.1	24.3	22.2	21.1	21.6	+0.4
Complete 4 years	10.0	8.6	9.4	10.5	12.3	11.2	10.1	11.6	10.6	10.6	8.2	8.8	8.9	+0.1
Region:														
Northeast	9.3	6.4	8.3	11.9	12.2	7.8	7.9	10.1	10.3	8.7	6.0	7.8	7.4	-0.4
Midwest	11.0	9.8	12.6	11.1	12.1	10.7	8.5	10.5	10.7	13.1	10.0	8.7	8.4	-0.3
South	13.8	11.9	11.5	12.5	15.2	13.3	13.2	14.5	11.5	11.6	9.9	9.8	9.7	-0.2
West	10.6	10.5	10.3	11.2	13.7	16.8	14.1	13.7	14.0	12.9	10.2	13.6	16.0	+2.4
Population Density:														
Large MSA	10.3	8.7	9.9	10.1	13.5	11.4	10.7	13.5	13.6	12.0	9.1	9.5	10.8	+1.3
Other MSA	12.5	10.8	11.8	12.8	14.3	14.0	12.3	11.7	10.8	12.2	8.9	10.9	10.7	-0.2
Non-MSA	12.0	11.4	10.4	11.8	12.3	11.2	10.8	13.6	10.9	10.4	10.9	9.2	9.5	+0.3
Parental Education: a														
1.0-2.0 (Low)	19.4	19.4	18.5	17.6	20.7	20.2	19.2	21.9	19.3	19.0	14.3	16.0	15.9	0.0
2.5–3.0	15.1	13.8	14.6	15.8	18.4	17.5	16.3	18.3	16.7	15.8	13.0	14.7	15.1	+0.4
3.5-4.0	13.1	11.3	11.8	13.0	14.7	14.0	13.0	15.1	12.9	12.9	10.7	10.6	12.5	+1.9
4.5–5.0	8.0	7.2	8.2	8.7	10.6	9.1	8.2	8.6	8.0	7.6	7.4	6.7	7.0	+0.4
5.5-6.0 (High)	7.1	4.9	6.7	7.4	8.1	6.6	5.8	6.6	7.9	7.3	4.7	6.7	5.2	-1.5
Race/Ethnicity (2-year average): b														
White	10.9	9.9	9.6	10.3	11.5	11.4	10.0	9.1	8.9	8.7	7.8	7.3	7.5	+0.3
African American	12.9	11.1	10.6	12.3	14.1	13.6	12.4	13.6	13.2	11.9	11.7	11.5	10.7	-0.8
Hispanic	14.3	13.7	13.2	13.6	15.3	16.9	17.2	16.8	16.0	15.0	12.8	11.4	12.4	+1.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent

inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 11

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percer	tage wh	o used ir	n last 12	months					
Approximate weighted N =	<u>1991</u> 14,800	<u>1992</u> 14,800	1993 15,300	<u>1994</u> 15,800	1995 17,000	1996 15,600	1997 15,500	1998 15,000	1999 13,600	2000 14,300	2001 14,000	2002 14,300	2003 15,800	2004 16,400	2005 16,200
Total	16.5	15.2	19.2	25.2	28.7	33.6	34.8	31.1	32.1	32.2	32.7	30.3	28.2	27.5	26.6
Gender:															
Male	17.7	16.3	21.2	28.2	30.6	36.0	37.3	32.2	34.3	36.1	36.0	32.3	30.0	29.0	28.1
Female	15.1	13.9	16.9	21.9	26.5	31.4	32.3	30.1	29.7	28.4	29.6	28.4	26.4	25.8	24.9
College Plans:															
None or under 4 years	26.9	25.1	31.5	37.3	41.8	48.9	51.5	46.8	48.3	48.8	47.4	46.6	44.6	41.9	41.4
Complete 4 years	14.2	13.0	16.5	22.4	26.4	31.0	32.0	28.2	29.3	29.7	30.3	27.7	25.5	25.4	24.6
Region:															
Northeast	17.1	14.9	22.4	25.6	28.8	34.8	34.6	35.4	34.4	30.3	34.1	31.7	29.5	29.2	28.7
Midwest	15.8	14.8	17.4	23.4	26.6	33.1	34.4	28.5	31.6	31.1	31.7	29.0	25.0	25.3	26.4
South	14.5	12.5	16.4	23.8	28.4	33.9	34.4	30.7	30.9	31.4	31.2	28.9	29.6	29.0	27.4
West	19.4	20.4	24.0	30.0	32.2	32.4	36.5	30.7	32.0	37.1	36.4	33.4	28.8	26.4	23.4
Population Density:															
Large MSA	16.5	15.1	19.0	26.3	27.8	31.5	34.1	28.7	31.2	32.4	30.0	29.0	27.1	25.9	25.3
Other MSA	17.3	15.9	19.8	28.2	31.2	36.2	36.6	33.1	33.6	32.8	35.2	32.4	28.7	27.8	28.0
Non-MSA	14.9	13.9	18.2	18.5	24.8	30.9	32.5	30.2	30.0	31.1	30.9	27.6	29.0	29.0	25.5
Parental Education: a															
1.0-2.0 (Low)	20.3	18.9	22.4	25.8	32.0	32.9	34.5	31.7	38.1	37.1	33.6	33.5	33.7	33.2	28.6
2.5–3.0	17.8	16.0	19.7	26.3	31.8	35.6	36.8	35.3	35.4	34.9	37.1	35.1	32.2	30.6	31.1
3.5-4.0	16.2	15.1	19.3	25.6	30.0	36.4	37.8	31.6	31.9	35.0	32.6	30.1	29.4	29.5	27.1
4.5–5.0	14.9	14.1	17.6	23.8	27.0	31.7	33.1	28.3	28.8	28.9	31.4	27.9	24.3	24.3	24.5
5.5-6.0 (High)	15.9	13.7	18.5	23.3	23.4	30.3	30.5	27.7	30.6	27.3	29.4	25.8	24.3	22.5	23.6
Race/Ethnicity (2-year average): b															
White	_	17.0	18.0	22.6	27.7	32.0	35.3	34.2	32.5	32.6	32.9	32.7	30.6	28.2	27.3
African American	_	7.6	8.7	15.3	20.9	25.7	28.4	26.9	26.3	27.6	28.7	26.5	25.1	27.0	27.2
Hispanic	_	18.9	21.3	25.1	29.2	34.6	36.8	34.4	34.0	34.8	34.9	31.6	28.8	29.8	28.6

TABLE 11 (cont.)

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percer	tage who	o used ir	last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2012	2014	2015	2016	2017	2018	2017-2018
Approximate weighted N =		16,100	15,100	15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	13,000	15,600	14,700	13,500	14,300	change
Total	25.2	24.6	23.9	26.7	27.5	28.8	28.0	29.8	27.3	25.4	23.9	25.5	27.5	+2.0
Gender:	20.2	24.0	20.0	20.7	21.0	20.0	20.0	25.0	21.0	20.4	20.0	20.0	21.5	12.0
Male	26.3	26.8	25.5	29.6	30.7	31.8	31.0	32.7	28.3	25.9	23.3	24.2	27.2	+3.0 s
Female	24.0	22.4	22.2	23.9	24.3	25.8	25.3	27.0	26.0	24.7	24.0	26.5	27.6	+1.0
College Plans:	24.0	22.4	22.2	20.0	24.0	20.0	20.0	21.0	20.0	24.1	24.0	20.5	21.0	11.0
None or under 4 years	42.0	42.1	43.5	44.5	45.8	47.9	43.6	46.5	41.4	40.8	37.2	35.5	40.3	+4.9
Complete 4 years	23.0	22.2	21.4	24.7	25.3	26.7	26.5	28.0	25.7	23.8	22.4	24.0	25.6	+1.6
Region:	20.0	22.2	21.4	24.7	20.0	20.7	20.5	20.0	20.1	20.0	22.7	24.0	25.0	11.0
Northeast	24.9	25.0	26.3	24.1	26.2	29.3	31.4	28.7	27.4	26.7	24.1	25.9	29.8	+3.9
Midwest	24.8	24.9	22.6	23.6	25.7	26.8	23.7	27.5	24.5	21.5	23.0	25.7	25.0	-0.7
South	25.5	22.7	24.0	28.7	27.8	28.6	27.9	31.1	27.6	25.8	23.8	23.5	26.2	+2.7
West	25.3	26.2	23.4	29.4	30.3	30.9	30.2	31.3	29.4	27.7	24.6	27.9	30.2	+2.3
Population Density:	20.0	20.2	23.4	23.4	30.3	30.5	30.2	31.3	23.4	21.1	24.0	21.5	30.2	72.3
Large MSA	24.0	24.5	24.2	26.6	26.6	27.4	28.6	28.7	27.5	25.6	24.0	27.0	29.1	+2.1
Other MSA	25.1	24.9	24.7	27.8	29.1	30.6	28.1	31.5	28.0	25.9	23.2	25.2	28.5	+3.3
Non-MSA	27.4	23.9	21.7	24.5	25.7	27.2	27.0	27.3	25.1	23.8	25.4	23.7	22.4	-1.3
Parental Education: a	21.4	23.9	21.7	24.5	23.7	21.2	21.0	21.3	25.1	23.0	23.4	23.1	22.4	-1.3
1.0–2.0 (Low)	31.9	28.4	30.2	36.0	34.8	35.8	37.1	36.9	31.5	34.2	26.6	28.8	31.2	+2.4
2.5–3.0	29.6	29.4	28.3	29.9	33.0	34.0	33.0	35.7	32.0	31.1	29.1	29.1	32.0	+2.4
3.5–4.0	26.6	26.3	26.0	27.3	29.3	31.0	29.7	31.8	30.6	29.0	26.1	28.7	29.2	+2.6
4.5–5.0	21.8	21.2	19.8	24.2	22.2	24.6	25.5	26.3	23.3	21.9	20.1	23.0	24.7	+0.5
	21.0	18.9	18.9	21.8	23.1	23.1	22.9	23.2	21.6	18.6	20.9	21.3	23.6	+2.3
5.5–6.0 (High) Race/Ethnicity (2-year average): b	21.2	10.9	10.9	21.0	23.1	23.1	22.9	23.2	21.0	10.0	20.7	21.3	23.0	+2.3
* * * * * * * * * * * * * * * * * * * *	00.0	05.7	04.0	05.4	00.5	07.4	07.5	07.0	00.7	04.0	04.0	04.0	05.0	.0.7
White African American	26.6 24.5	25.7 22.3	24.6 20.6	25.1 22.0	26.5 25.0	27.4 28.1	27.5	27.3 30.5	26.7	24.8 28.1	24.2 25.4	24.6	25.3	+0.7 +1.0
							29.1		30.6			23.8	24.8	
Hispanic	24.9	23.7	26.6	29.9	31.1	31.0	31.8	33.4	32.6	30.6	27.2	26.0	28.2	+2.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent

inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 12

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months															
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300 42.3	15,900	16,000	15,200	16,300 36.3	16,300	16,700	15,200
Total	40.0	44.5	47.6	50.2	50.8	48.8	46.1	44.3	42.3	40.0	40.6	38.8	30.3	33.1	29.6	27.0
Gender:	45.0	F0.0	53.2	55.0	55.0	FO 4	49.2	47.2	45.7	40.0	40.4	44.0	38.6	25.0	20.0	29.4
Male	45.8	50.6		55.9	55.8	53.4			45.7	43.2	43.1	41.2		35.8	32.8	
Female	34.9	37.8	42.0	44.3	45.7	44.1	42.5	40.8	38.4	36.0	37.8	36.0	33.8	30.3	26.3	24.2
College Plans:																
None or under 4 years	_	46.8	50.7	51.6	53.1	51.7	49.7	48.2	46.0	44.2	44.0	42.7	40.6	36.2	34.4	31.1
Complete 4 years	_	40.7	43.4	47.1	47.3	45.9	42.6	40.6	38.3	35.9	37.5	36.1	34.0	31.3	27.3	24.7
Region:																
Northeast	47.4	52.7	53.5	59.2	60.6	55.5	53.2	50.9	49.3	49.6	48.2	44.6	41.2	36.7	31.3	32.2
Midwest	40.1	44.0	48.1	51.6	52.2	48.9	46.8	45.6	42.0	36.4	40.8	40.2	37.4	34.3	33.0	28.7
South	32.4	37.9	42.5	42.7	41.2	42.0	38.0	36.7	36.1	35.6	31.0	31.7	30.2	28.7	25.0	21.4
West	44.1	45.8	46.8	49.1	51.9	51.7	49.6	45.5	44.8	43.2	46.2	41.2	39.6	35.6	32.3	28.3
Population Density:																
Large MSA	50.4	51.3	53.2	57.2	58.7	56.3	51.4	50.4	47.0	44.2	44.4	42.6	39.3	34.3	27.8	27.7
Other MSA	40.3	44.2	48.9	50.8	51.9	49.8	46.4	44.8	44.0	41.0	40.7	39.4	36.9	34.7	30.3	28.3
Non-MSA	32.9	39.8	41.2	43.3	43.3	41.9	41.6	38.5	36.5	35.3	37.3	34.7	32.2	29.0	30.0	23.5
Parental Education: a																
1.0-2.0 (Low)	35.2	38.9	41.0	42.5	46.0	43.7	41.8	38.9	39.7	35.7	37.1	33.4	30.7	30.7	23.3	21.0
2.5–3.0	39.2	46.1	48.2	50.3	50.0	49.0	45.3	44.5	42.2	40.1	40.6	38.8	36.3	31.1	29.6	26.9
3.5–4.0	38.5	44.9	49.5	51.4	52.7	49.8	47.0	46.5	42.2	41.4	41.0	40.1	36.8	33.4	31.4	27.6
4.5–5.0	40.6	46.8	49.3	53.2	53.7	50.5	47.6	45.9	43.5	39.6	43.2	39.9	37.5	35.1	29.7	28.5
5.5-6.0 (High)	38.7	47.5	48.6	55.2	51.2	52.0	48.5	45.7	43.7	39.9	37.9	38.9	38.6	35.9	30.7	29.4
Race/Ethnicity (2-year average): b																
White	_	_	46.8	50.1	51.8	51.2	49.1	47.1	44.6	42.0	41.6	41.4	39.7	37.6	34.5	31.6
African American	_	_	37.9	39.6	38.4	37.5	36.1	35.5	37.4	36.4	33.4	30.6	25.7	21.2	17.8	13.7
Hispanic	_	_	45.8	43.4	42.1	44.1	41.2	38.8	38.3	38.8	37.8	36.7	33.3	29.6	25.0	21.6

TABLE 12 (cont.)

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

_						Percen	tage who	o used in	last 12 r	nonths					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>
Approximate weighted N =	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	23.9	21.9	26.0	30.7	34.7	35.8	38.5	37.5	37.8	36.5	37.0	36.2	34.9	34.3	33.6
Gender:															
Male	27.2	24.4	29.0	35.1	38.1	39.4	40.9	41.7	41.4	39.2	40.1	39.9	37.8	37.4	37.6
Female	20.1	18.9	22.4	26.4	30.6	31.6	35.5	33.0	34.1	33.4	33.6	32.4	31.6	30.8	29.6
College Plans:															
None or under 4 years	27.6	27.5	29.1	34.4	39.0	41.7	44.6	43.0	43.2	40.3	41.5	40.9	42.1	39.0	41.3
Complete 4 years	22.0	19.4	24.4	29.1	32.6	33.4	36.4	35.2	35.9	34.6	35.3	34.7	32.3	32.6	31.5
Region:															
Northeast	28.2	23.9	31.2	36.0	37.7	40.0	43.5	43.0	39.0	42.3	43.8	41.9	40.5	40.1	39.6
Midwest	26.1	22.7	26.0	30.5	36.9	36.9	36.5	33.8	38.0	34.5	36.9	37.5	36.5	34.0	33.7
South	18.1	18.1	23.2	28.7	31.8	32.8	35.0	36.5	36.0	30.7	32.4	32.6	29.4	30.1	31.2
West	26.8	26.1	26.4	30.0	33.8	35.6	42.6	39.0	39.8	43.1	38.4	35.2	36.2	35.6	32.0
Population Density:															
Large MSA	24.3	22.6	29.1	32.0	37.5	37.2	38.3	38.4	38.7	37.1	39.2	37.7	32.3	32.3	34.5
Other MSA	27.5	22.1	26.2	32.7	34.9	38.6	40.5	38.8	39.1	38.1	36.7	38.0	38.1	37.9	35.0
Non-MSA	17.5	21.0	23.1	25.8	31.0	29.6	34.9	33.5	34.7	32.9	35.1	30.8	32.2	29.7	29.7
Parental Education: a															
1.0-2.0 (Low)	22.4	21.2	23.0	26.3	30.9	31.3	34.8	34.2	35.5	36.5	33.9	30.8	31.4	28.7	27.3
2.5–3.0	22.5	21.1	24.1	29.7	33.8	35.1	37.4	36.1	38.6	35.1	37.0	34.9	34.2	33.1	34.8
3.5-4.0	24.0	22.7	26.6	31.5	34.2	36.1	38.1	39.0	38.6	36.8	38.4	38.5	36.2	36.9	35.5
4.5-5.0	23.8	20.8	27.2	32.0	35.0	36.6	40.1	37.4	35.9	35.8	37.4	37.0	35.4	34.4	33.9
5.5-6.0 (High)	28.2	22.6	28.0	32.3	37.5	36.7	39.7	38.3	39.2	38.0	35.2	36.1	32.6	34.0	32.3
Race/Ethnicity (2-year average): b															
White	28.2	24.9	25.9	30.2	34.2	36.4	38.7	39.9	39.1	38.2	38.5	38.7	37.9	37.3	36.6
African American	11.4	11.5	14.2	20.7	26.8	30.2	30.4	30.0	30.4	30.0	29.0	27.3	26.3	25.5	26.3
Hispanic	23.6	24.7	23.5	25.7	29.7	32.3	36.4	37.2	37.8	40.5	37.6	34.6	31.1	29.5	29.6

TABLE 12 (cont.)

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Percen	itage who	used in	last 12 r	nonths					
Approximate weighted $N =$	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	31.5	31.7	32.4	32.8	34.8	36.4	36.4	36.4	35.1	34.9	35.6	37.1	35.9	-1.2
Gender:														
Male	32.7	35.0	35.1	36.7	38.3	40.0	40.8	39.8	37.0	36.3	36.9	37.4	36.8	-0.6
Female	29.7	28.3	29.5	28.7	30.7	32.1	31.3	32.4	33.0	33.5	34.0	36.2	34.1	-2.1
College Plans:														
None or under 4 years	39.9	38.6	41.0	38.0	42.7	41.5	41.5	42.1	40.8	38.7	37.8	39.6	39.5	-0.1
Complete 4 years	29.1	29.8	30.2	31.1	32.5	34.7	34.8	34.8	33.1	33.7	34.5	36.1	34.5	-1.6
Region:														
Northeast	38.1	39.2	36.6	37.8	41.3	40.7	38.1	40.9	39.6	41.0	39.0	41.5	41.1	-0.5
Midwest	32.0	32.6	31.1	32.5	32.5	34.7	32.0	31.6	34.6	32.7	33.4	38.8	38.2	-0.6
South	29.4	29.0	31.0	30.6	32.4	33.1	33.9	34.4	33.6	31.2	32.8	32.7	30.7	-2.0
West	28.8	29.1	32.8	32.1	35.8	40.0	43.0	40.9	34.3	38.9	40.1	39.6	38.9	-0.8
Population Density:														
Large MSA	33.4	33.9	34.8	37.2	36.8	38.7	40.4	38.9	35.8	38.5	38.1	40.2	37.0	-3.2
Other MSA	31.9	31.6	31.2	32.0	36.1	37.4	36.8	37.9	36.9	34.4	35.7	36.0	35.3	-0.7
Non-MSA	28.1	28.8	32.2	28.7	28.8	30.4	29.2	29.0	29.7	30.4	31.7	34.2	35.5	+1.3
Parental Education: a														
1.0-2.0 (Low)	32.0	31.1	30.5	28.9	32.8	35.7	42.0	38.4	37.3	35.3	35.0	34.6	33.1	-1.5
2.5–3.0	33.2	33.8	32.8	33.6	35.4	36.8	37.6	39.0	37.5	37.8	36.7	39.7	38.9	-0.7
3.5-4.0	31.6	30.6	32.0	34.5	36.8	38.1	37.5	38.3	35.9	36.8	37.1	39.0	38.6	-0.3
4.5–5.0	28.4	30.4	32.7	31.0	34.5	35.0	35.0	33.3	32.9	32.5	34.8	35.6	34.9	-0.7
5.5-6.0 (High)	32.9	32.8	32.8	33.6	29.9	34.5	32.2	33.8	32.9	32.1	32.6	34.1	32.8	-1.3
Race/Ethnicity (2-year average): b														
White	34.8	33.4	33.9	34.3	34.8	36.3	36.6	35.6	35.1	35.1	35.3	36.5	36.9	+0.4
African American	27.7	27.0	26.8	28.6	30.8	32.4	33.2	35.0	35.9	32.8	32.4	35.5	36.3	+0.8
Hispanic	28.7	27.2	27.3	28.8	31.6	34.4	37.3	39.2	37.1	35.6	36.9	36.8	34.2	-2.6 ss

Votes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 13

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

,						Perce	ntage w	ho used	in last 30	) days					
	1991	1992	1993	1994	<u>1995</u>	1996	<u>1997</u>	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	3.2	3.7	5.1	7.8	9.1	11.3	10.2	9.7	9.7	9.1	9.2	8.3	7.5	6.4	6.6
Gender:															
Male	3.8	3.8	6.1	9.5	9.8	12.1	11.4	10.3	10.5	10.2	11.0	9.5	8.5	6.3	7.6
Female	2.6	3.5	4.1	6.0	8.2	10.2	8.9	8.8	8.8	7.8	7.3	7.1	6.4	6.3	5.7
College Plans:															
None or under 4 years	9.8	11.5	13.2	19.7	20.6	24.5	23.8	24.6	25.9	23.4	23.9	23.2	21.7	19.0	19.7
Complete 4 years	2.1	2.5	3.9	6.1	7.5	9.1	8.4	7.8	7.7	7.4	7.5	6.8	6.0	4.9	5.2
Region:															
Northeast	2.4	3.1	3.3	7.7	7.2	9.2	9.0	6.5	7.6	7.5	8.7	6.3	5.9	5.3	5.6
Midwest	3.3	3.0	3.7	7.3	10.1	11.8	10.4	10.8	11.7	9.5	7.9	8.0	7.3	5.6	6.6
South	3.3	3.7	5.0	6.6	8.5	10.3	9.7	10.2	10.1	8.9	10.0	9.4	8.7	7.0	7.6
West	3.9	5.6	9.2	10.9	10.6	13.9	11.9	10.5	8.4	10.4	9.8	8.6	7.0	7.0	5.9
Population Density:															
Large MSA	2.8	3.3	4.1	7.6	9.1	11.3	8.7	9.3	8.6	7.5	7.1	6.7	6.5	6.6	6.3
Other MSA	3.7	4.4	6.5	9.8	9.9	12.0	10.7	9.8	9.4	9.1	10.5	8.8	7.5	6.4	7.4
Non-MSA	2.8	3.1	3.2	4.3	7.7	9.7	10.8	10.2	11.6	11.0	9.1	9.4	9.0	6.1	5.7
Parental Education: a															
1.0-2.0 (Low)	7.4	7.2	7.2	12.4	13.5	12.5	15.5	15.7	17.5	18.8	16.4	13.5	13.7	11.3	10.6
2.5-3.0	3.9	3.9	5.5	9.0	10.4	13.4	11.6	11.4	12.1	11.9	11.9	11.3	10.0	8.3	9.6
3.5-4.0	3.1	3.5	5.7	7.8	9.9	12.0	11.0	10.6	9.1	8.8	9.6	8.7	7.6	7.0	7.3
4.5-5.0	1.7	2.9	3.6	6.0	7.1	9.3	9.0	7.1	6.7	5.3	6.5	6.2	5.0	4.4	4.2
5.5-6.0 (High)	2.3	2.4	4.2	5.8	7.4	9.2	6.7	7.3	7.5	5.8	5.3	5.4	4.8	3.6	3.3
Race (2-year average): b															
White	_	3.3	4.1	5.6	7.8	10.0	10.6	9.5	8.7	8.4	8.4	8.3	7.4	6.2	5.8
African American	_	2.0	2.9	5.0	6.6	8.0	9.0	9.1	9.7	9.3	8.1	7.4	7.3	7.7	8.2
Hispanic	_	6.4	8.3	12.1	12.9	12.5	13.1	13.5	14.3	12.7	12.6	12.6	10.3	9.3	8.3

TABLE 13 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

					Perce	ntage wl	no used i	in last 30	days					
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
Assume the state of the day	2006	2007	<u>2008</u>	<u>2009</u>	<u>2010</u>	2011	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =			15,700		1	1	1		14,600	1	16,900	15,300	14,000	.0.4
Total	6.5	5.7	5.8	6.5	8.0	7.2	6.5	7.0	6.5	6.5	5.4	5.5	5.6	+0.1
Gender:														
Male	6.7	6.2	6.6	7.5	9.2	8.5	7.0	6.7	6.9	6.6	5.7	5.3	5.6	+0.4
Female	6.0	4.9	4.8	5.3	6.8	5.7	6.0	7.2	5.9	6.2	5.0	5.5	5.3	-0.2
College Plans:														
None or under 4 years	20.1	18.3	19.1	18.9	21.4	19.4	20.0	19.7	17.6	16.4	15.4	13.1	14.2	+1.0
Complete 4 years	5.1	4.5	4.5	5.4	6.8	6.2	5.4	6.2	5.6	5.6	4.5	4.6	4.3	-0.3
Region:														
Northeast	5.2	3.4	4.2	6.6	7.0	4.3	4.7	5.4	6.2	5.3	3.2	3.8	4.0	+0.1
Midwest	5.6	5.3	6.8	6.2	6.8	5.7	4.4	5.8	6.0	6.6	5.8	4.3	4.5	+0.1
South	7.9	6.5	6.0	6.8	8.8	7.7	7.5	8.5	6.1	6.7	5.8	5.3	5.3	0.0
West	5.9	5.9	5.6	6.0	8.5	10.2	8.2	7.0	7.7	6.8	6.0	7.9	8.4	+0.5
Population Density:														
Large MSA	5.3	4.3	4.9	5.5	7.7	6.8	5.8	7.2	7.5	7.1	4.9	4.4	5.8	+1.4
Other MSA	7.4	6.1	6.3	7.2	8.3	8.3	7.0	6.7	6.0	6.5	5.1	6.4	5.6	-0.8
Non-MSA	6.3	6.7	5.8	6.1	7.4	5.5	6.5	7.5	6.1	5.7	7.1	4.9	5.3	+0.4
Parental Education: a														
1.0-2.0 (Low)	12.0	10.4	11.1	10.3	12.3	12.2	11.4	13.6	12.4	11.9	8.9	9.5	8.6	-0.9
2.5-3.0	8.9	7.3	8.4	8.6	10.5	10.1	9.9	10.9	8.8	8.5	7.6	7.6	8.5	+0.9
3.5-4.0	7.0	6.7	5.6	7.1	8.8	7.7	7.2	8.1	7.1	6.7	5.9	6.1	6.3	+0.1
4.5-5.0	3.7	3.6	3.8	5.1	6.1	5.5	4.1	4.3	4.1	3.6	4.0	3.2	3.5	+0.4
5.5-6.0 (High)	3.4	2.3	3.6	4.0	4.3	3.4	3.1	3.4	4.1	4.1	2.6	3.5	2.4	-1.1
Race (2-year average): b														
White	5.8	5.4	5.0	5.4	6.5	6.5	5.3	4.7	4.7	4.6	4.1	3.9	4.0	+0.1
African American	7.5	6.4	6.1	6.7	7.7	8.1	7.6	8.2	7.7	7.1	7.2	6.5	5.5	-1.0
Hispanic	8.1	7.6	7.1	7.3	8.8	10.1	10.4	10.0	8.9	8.3	7.3	6.5	6.8	+0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 14

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

						Perce	entage w	ho used i	in last 30	days					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
Approximate weighted N =		14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	8.7	8.1	10.9	15.8	17.2	20.4	20.5	18.7	19.4	19.7	19.8	17.8	17.0	15.9	15.2
Gender:															
Male	10.1	9.0	13.1	18.6	19.1	22.3	23.0	20.3	21.8	23.3	22.7	19.3	19.0	17.4	16.7
Female	7.3	7.1	8.6	12.8	15.0	18.6	17.9	17.2	17.0	16.2	16.8	16.4	15.0	14.2	13.4
College Plans:															
None or under 4 years	15.0	14.3	20.4	25.8	27.9	35.2	34.7	32.6	33.8	33.7	35.2	31.5	31.3	27.5	27.0
Complete 4 years	7.4	6.7	8.8	13.6	15.2	17.9	18.1	16.1	17.0	17.6	17.3	15.6	14.7	14.2	13.4
Region:															
Northeast	10.1	7.7	13.4	16.9	17.1	21.9	21.6	22.7	22.0	19.4	21.3	19.4	18.3	16.5	17.6
Midwest	8.3	7.6	10.5	15.3	16.8	20.7	19.8	16.6	19.6	19.8	19.1	16.7	14.2	14.8	14.3
South	7.2	6.6	9.1	14.8	17.2	20.3	20.1	18.7	18.1	18.2	18.0	16.6	18.5	17.1	15.7
West	10.3	11.7	12.1	17.3	17.6	18.9	21.1	17.2	18.8	22.8	23.0	20.2	17.0	14.7	12.9
Population Density:															
Large MSA	9.3	8.0	11.2	17.2	16.9	18.4	19.8	17.4	19.0	20.6	18.5	16.8	15.4	13.8	14.6
Other MSA	9.1	8.6	11.2	17.5	18.5	22.2	21.7	19.7	20.3	19.7	21.0	19.1	17.3	16.7	15.6
Non-MSA	7.6	7.2	10.1	11.4	14.7	19.3	19.2	18.4	18.1	18.8	18.7	16.5	18.8	16.9	15.0
Parental Education: a															
1.0-2.0 (Low)	11.4	11.2	13.3	15.8	20.6	21.4	20.9	20.4	25.0	23.4	20.6	21.6	21.6	19.5	15.8
2.5-3.0	9.5	8.0	11.3	16.3	19.3	22.9	21.7	22.1	22.0	21.0	22.8	20.4	20.3	17.9	18.1
3.5-4.0	8.1	8.3	10.9	15.8	18.0	22.1	22.5	18.3	19.3	21.2	20.8	18.1	17.8	17.3	15.9
4.5-5.0	7.9	7.4	10.0	15.0	15.6	18.1	19.2	16.4	16.6	17.9	17.5	15.2	13.4	13.2	12.7
5.5-6.0 (High)	8.9	7.5	9.4	15.5	13.3	17.4	17.1	16.2	18.2	16.7	17.2	15.5	13.8	12.7	13.5
Race (2-year average): b															
White	_	9.0	9.8	13.4	16.8	19.3	21.2	20.3	19.8	20.2	20.2	19.8	18.2	16.5	15.7
African American	_	3.6	4.9	9.8	13.8	15.9	16.5	15.3	14.6	15.8	16.7	15.2	15.1	16.3	15.3
Hispanic		10.4	12.4	15.6	17.7	19.1	21.3	21.4	20.6	20.5	20.5	18.2	17.0	17.7	16.0

TABLE 14 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 30 days													
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2017-2018 <u>change</u>
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	14.2	14.2	13.8	15.9	16.7	17.6	17.0	18.0	16.6	14.8	14.0	15.7	16.7	+0.9
Gender:														
Male	15.7	15.8	15.2	18.7	20.1	20.8	19.8	20.6	17.4	15.6	14.2	15.3	17.3	+2.0
Female	12.6	12.5	12.3	13.2	13.3	14.5	14.4	15.3	15.7	13.7	13.7	15.8	15.8	0.0
College Plans:														
None or under 4 years	28.1	27.6	28.4	28.0	34.0	34.2	30.3	31.0	29.3	27.9	24.8	24.7	28.4	+3.7
Complete 4 years	12.4	12.3	11.9	14.5	14.6	15.7	15.7	16.5	15.1	13.4	12.8	14.4	14.8	+0.4
Region:														
Northeast	14.6	14.3	16.6	15.3	15.5	19.0	19.1	17.3	17.5	14.7	14.3	17.2	20.4	+3.2
Midwest	13.6	14.7	12.5	13.3	15.4	16.4	14.4	16.9	14.4	12.6	14.0	15.6	14.9	-0.7
South	14.6	12.8	14.0	17.3	16.7	16.7	17.2	19.0	17.0	15.3	14.3	13.8	15.4	+1.7
West	14.1	15.3	12.9	17.2	19.0	19.2	18.0	18.2	17.3	16.4	13.4	17.7	17.5	-0.2
Population Density:														
Large MSA	14.2	14.2	13.9	16.1	16.0	17.0	17.3	17.2	16.7	14.8	14.5	17.4	18.1	+0.7
Other MSA	13.6	13.5	14.4	16.4	18.0	18.9	17.2	19.1	17.1	15.4	13.7	15.4	17.6	+2.2
Non-MSA	15.7	15.5	12.4	14.8	15.1	15.8	16.3	16.3	14.9	13.4	14.2	13.9	12.4	-1.6
Parental Education: a														
1.0-2.0 (Low)	18.4	17.1	18.1	22.2	21.0	23.6	21.0	22.0	18.6	21.0	16.6	18.5	19.8	+1.4
2.5-3.0	17.1	17.4	15.7	18.1	20.4	21.2	21.3	21.4	19.9	18.4	15.8	18.1	19.6	+1.5
3.5-4.0	14.9	15.1	15.4	16.0	17.7	18.9	17.5	19.7	18.5	17.3	15.9	17.7	18.2	+0.5
4.5-5.0	12.0	11.2	11.2	14.4	13.7	14.8	15.4	15.5	13.4	12.1	12.0	13.5	14.4	+0.9
5.5-6.0 (High)	11.8	11.3	10.1	13.1	12.9	13.2	14.0	12.8	13.7	9.8	12.1	13.3	13.0	-0.2
Race (2-year average): b														
White	15.2	14.7	14.2	14.6	15.7	16.4	16.7	16.5	16.2	14.6	14.1	15.1	15.3	+0.3
African American	13.8	12.6	11.7	13.7	15.5	18.0	18.8	19.1	19.0	17.4	15.8	14.8	16.1	+1.4
Hispanic	14.0	13.0	15.3	17.4	18.2	18.2	18.5	20.0	19.4	18.1	15.5	14.9	16.9	+2.0 ss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .001, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 15

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 30 days 1988 1989 <u>1984</u> <u>1985</u> 1990 1975 <u> 1976</u> 1977 <u> 1978</u> <u>1979</u> <u>1980</u> 1981 <u>1982</u> <u> 1983</u> 1986 <u> 1987</u> Approximate weighted N = 9,40015,900 16,000 15,200 15,200 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 16,300 16,300 16,700 Total 32.2 35.4 36.5 33.7 28.5 27.0 25.2 25.7 23.4 21.0 16.7 37.1 31.6 18.0 14.0 Gender: Male 32.3 37.7 40.7 42.6 41.4 37.8 28.2 28.7 23.1 16.1 35.3 31.4 31.0 26.8 20.7 19.5 Female 21.1 22.5 26.0 30.0 31.3 31.3 29.1 27.3 24.9 22.2 22.4 20.0 18.6 15.2 13.8 11.5 College Plans: None or under 4 years 39.2 39.6 37.7 36.1 32.9 30.7 29.2 29.0 28.3 25.1 20.4 17.6 34.5 38.7 21.0 Complete 4 years 28.4 31.0 33.2 32.2 29.4 27.4 23.9 22.9 20.9 22.7 20.0 18.5 16.4 14.6 11.9 Region: Northeast 32.2 38.6 40.4 46.7 44.7 39.3 38.2 33.3 32.0 33.3 32.0 28.5 25.3 20.2 18.6 17.6 Midwest 27.6 36.1 38.0 33.0 30.0 27.2 22.1 26.1 21.1 19.2 13.7 31.4 37.8 34.0 24.0 18.6 27.7 22.4 22.9 22.4 South 21.2 31.3 30.6 29.0 28.4 24.7 18.0 19.2 17.3 15.8 14.0 11.5 West 32.7 33.6 34.3 35.9 35.2 32.0 29.2 27.1 25.9 29.7 23.1 22.3 18.9 16.8 14.7 Population Density: Large MSA 36.2 37.9 40.4 44.0 42.2 39.6 36.3 34.3 31.7 28.5 28.5 26.7 23.1 19.4 15.2 14.1 37.5 25.9 Other MSA 26.4 32.5 36.2 37.1 34.5 31.4 28.3 28.1 25.1 22.9 21.3 19.3 17.5 14.6 Non-MSA 22.2 27.5 30.2 31.4 30.9 28.3 28.0 23.8 21.8 22.5 23.0 21.5 18.2 14.3 16.7 12.6 Parental Education: a 1.0-2.0 (Low) 22.3 29.0 30.4 30.7 33.2 29.9 29.7 24.9 26.2 23.8 23.4 21.0 19.9 15.6 13.9 11.4 2.5-3.0 26.5 33.7 36.7 37.7 35.8 34.6 31.5 28.4 27.3 25.4 25.9 24.1 20.9 16.8 16.3 14.3 3.5 - 4.025.1 32.3 36.9 37.7 37.8 33.6 31.4 29.3 26.1 25.8 26.5 24.1 21.1 17.7 17.9 13.5 4.5-5.0 27.3 32.6 34.3 39.0 37.3 33.7 31.9 30.1 26.9 23.3 27.1 23.1 21.1 19.3 17.1 15.0 5.5-6.0 (High) 32.1 36.0 39.7 37.6 36.2 31.9 27.7 25.5 23.4 20.6 21.7 21.2 20.6 16.2 15.0 Race (2-year average): b White 36.9 37.6 35.8 33.3 30.8 27.9 26.0 25.9 25.5 23.4 21.1 19.2 17.1 34.0 African American 28.2 27.0 24.8 24.8 22.3 7.5 29.2 29.7 25.7 25.8 19.4 14.5 11.0 9.6 20.2 Hispanic 33.3 30.8 29.0 29.5 27.7 26.2 25.3 23.8 21.9 16.1 21.3 12.4 11.7

TABLE 15 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						Perce	entage w	ho used	in last 30	days					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	1995 15.400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	<u>2005</u> 14,700
Total	13.8	11.9	15.5	19.0	21.2	21.9	23.7	22.8	23.1	21.6	22.4	21.5	21.2	19.9	19.8
Gender:															
Male	16.1	13.4	18.2	23.0	24.6	25.1	26.4	26.5	26.3	24.7	25.6	25.3	24.7	23.0	23.6
Female	11.2	10.2	12.5	15.1	17.2	18.3	20.3	18.8	19.7	18.3	19.1	17.4	17.3	16.6	15.8
College Plans:															
None or under 4 years	15.8	15.0	17.9	21.6	23.7	26.4	29.3	28.3	26.6	26.0	27.5	27.0	26.9	24.1	24.9
Complete 4 years	12.5	10.4	14.2	17.7	19.6	20.0	21.5	20.5	21.8	19.6	20.4	19.6	18.9	18.3	18.1
Region:															
Northeast	17.6	14.4	19.5	22.7	23.8	25.9	27.0	27.2	24.2	26.0	28.4	25.6	26.5	25.1	25.0
Midwest	14.9	12.2	15.9	19.3	22.6	23.3	21.8	21.1	23.2	19.3	22.7	22.4	21.6	18.1	19.2
South	9.7	9.4	13.1	17.3	19.4	19.5	20.9	21.3	22.1	17.4	18.1	20.0	17.8	17.7	18.2
West	15.7	14.0	15.6	18.6	19.8	19.7	27.8	23.9	24.2	27.2	23.5	19.3	21.1	20.9	18.0
Population Density:															
Large MSA	14.3	12.9	18.0	20.7	23.6	22.9	21.7	23.4	23.2	22.6	23.4	22.9	19.6	19.1	20.4
Other MSA	16.3	11.5	15.3	19.8	21.5	23.7	25.6	23.9	24.4	22.6	22.5	22.7	23.7	22.3	20.8
Non-MSA	9.0	12.0	13.8	15.7	17.8	17.6	22.0	19.8	21.0	18.6	21.2	17.4	18.7	16.4	16.9
Parental Education: a															
1.0-2.0 (Low)	11.7	9.7	12.4	14.0	18.1	17.4	19.9	19.7	22.2	21.5	20.9	17.8	20.0	16.6	16.3
2.5–3.0	12.9	11.9	14.0	18.5	19.6	20.6	23.6	22.1	23.6	20.9	21.7	21.5	20.6	19.3	20.2
3.5-4.0	13.8	12.2	16.9	19.3	21.5	22.9	23.6	23.9	23.0	21.5	23.6	23.7	22.1	21.2	20.2
4.5–5.0	13.7	12.1	15.9	20.4	21.3	22.1	24.7	22.6	22.4	21.4	22.3	20.6	21.0	19.8	20.4
5.5-6.0 (High)	17.6	11.6	16.1	20.3	23.1	22.6	22.9	22.9	23.4	21.3	20.5	19.6	18.3	19.8	18.9
Race (2-year average): b															
White	15.3	14.1	14.9	18.4	20.8	22.0	23.6	24.4	23.8	22.7	22.9	23.3	22.8	22.1	21.6
African American	5.9	6.0	8.1	13.1	16.8	18.3	18.5	18.3	19.3	19.0	17.0	16.5	16.3	15.2	14.6
Hispanic	12.9	12.7	12.5	14.9	17.9	19.1	21.2	21.6	22.0	24.6	22.1	20.0	17.9	16.6	16.6

TABLE 15 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

## Percentage who used in last 30 days

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	18.3	18.8	19.4	20.6	21.4	22.6	22.9	22.7	21.2	21.3	22.5	22.9	22.2	-0.7
Gender:														
Male	19.7	22.3	22.2	24.3	25.2	26.4	26.5	26.4	24.3	23.1	25.0	24.1	24.0	-0.1
Female	16.4	15.0	16.2	16.8	16.9	18.4	18.8	18.7	17.9	19.2	19.7	21.5	19.2	-2.3
College Plans:														
None or under 4 years	24.8	25.9	24.9	24.6	28.1	27.5	27.0	28.0	26.8	24.6	25.4	26.6	26.6	-0.1
Complete 4 years	16.4	16.8	17.7	19.2	19.3	21.1	21.4	21.3	19.5	20.0	21.2	21.6	20.2	-1.3
Region:														
Northeast	24.8	23.7	23.1	24.6	26.1	26.4	24.0	25.8	25.6	26.2	25.8	26.7	27.4	+0.8
Midwest	17.4	18.6	17.5	20.2	20.0	21.7	19.5	20.0	21.0	19.6	20.4	22.7	23.2	+0.5
South	17.1	17.0	19.2	19.3	19.6	20.9	22.3	21.0	19.8	18.5	20.5	19.8	17.9	-1.9
West	16.0	17.7	19.2	19.7	21.7	23.4	26.6	25.8	20.0	23.8	25.6	25.6	24.7	-0.9
Population Density:														
Large MSA	19.6	20.9	21.8	24.0	22.8	23.3	25.9	25.7	22.0	24.5	24.4	25.2	24.0	-1.2
Other MSA	18.4	18.2	18.6	20.3	22.7	24.3	23.5	23.5	22.4	20.4	22.6	21.4	21.2	-0.3
Non-MSA	16.3	16.7	18.5	16.8	15.9	17.5	16.7	16.4	17.1	17.9	19.3	22.4	21.3	-1.0
Parental Education: a														
1.0-2.0 (Low)	17.9	18.2	18.5	16.9	18.6	20.5	26.7	22.6	23.0	21.9	21.4	22.2	19.8	-2.4
2.5-3.0	19.6	20.1	18.7	22.0	21.2	23.0	23.2	25.2	23.0	22.9	24.4	24.5	23.8	-0.7
3.5-4.0	18.6	18.5	18.8	21.7	22.8	23.5	23.2	23.5	21.4	21.4	22.8	24.8	23.5	-1.4
4.5–5.0	16.3	18.3	19.3	19.1	20.8	21.0	22.3	20.8	19.7	20.3	21.6	21.1	20.8	-0.3
5.5–6.0 (High)	18.2	17.9	21.0	20.3	18.4	23.1	20.3	21.3	19.8	18.6	18.6	19.1	20.8	+1.8
Race (2-year average): b														
White	20.5	19.5	20.1	20.8	21.4	22.2	22.6	21.8	21.3	21.0	21.1	22.1	22.3	+0.1
African American	15.9	16.0	16.3	18.6	20.1	21.0	22.3	24.0	23.0	20.8	22.2	23.9	24.0	+0.1
Hispanic	16.0	15.3	15.3	16.7	18.5	19.6	22.0	24.3	22.6	20.9	22.5	22.9	20.5	-2.5 sss

Source. The Monitoring the Future Study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 16

MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

Percentage who used daily in last 30 days

1991 1992 1993 1994 1995 1999 2000 2001 2002 2003 2004 2005 1996 1997 1998 Approximate weighted N = 17,50017,300 17,500 17,800 18,600 18,100 16,700 16,700 16,200 15,100 16,500 17,000 16,800 18,600 18,300 Total 0.2 0.2 0.4 0.7 8.0 1.5 1.1 1.1 1.4 1.3 1.3 1.2 1.0 8.0 1.0 Gender Male 0.3 0.3 0.5 1.0 1.1 2.0 1.4 1.4 1.9 2.0 2.0 1.7 1.3 0.9 1.4 Female 0.1 0.3 0.5 0.4 0.9 0.6 0.7 0.8 0.7 0.6 0.7 0.6 0.6 0.6 College Plans: None or under 4 years 0.9 1.1 1.2 2.1 3.1 4.4 4.2 4.2 5.6 5.1 5.1 5.1 3.6 3.3 3.9 0.9 0.3 0.7 0.8 0.4 Complete 4 years 0.1 0.1 0.5 0.5 1.0 0.6 8.0 8.0 0.7 0.7 Region: Northeast 0.1 0.1 0.3 0.8 0.5 0.9 0.9 0.8 1.0 8.0 1.4 1.2 8.0 0.5 0.7 Midwest 0.1 0.2 0.2 0.7 8.0 1.6 1.2 1.1 1.7 1.4 1.3 1.0 1.0 0.6 1.0 South 0.3 0.2 0.4 0.6 8.0 1.4 0.9 1.4 1.5 1.5 1.6 1.1 0.9 1.2 West 0.2 0.3 0.7 1.2 2.1 1.3 0.9 1.0 1.6 0.9 1.0 0.9 0.9 0.8 1.1 Population Density: Large MSA 0.2 0.3 0.7 0.8 0.8 1.0 0.8 1.0 8.0 0.7 0.9 0.1 1.1 1.7 1.1 Other MSA 0.2 0.2 0.5 0.9 0.9 1.6 1.2 1.1 1.5 1.3 1.6 1.3 1.0 8.0 1.2 Non-MSA 0.2 1.3 8.0 0.3 0.2 0.5 0.5 1.0 1.1 1.4 1.8 1.4 1.4 1.2 0.7 Parental Education: a 1.0-2.0 (Low) 0.5 2.2 2.3 0.5 0.7 8.0 2.0 1.6 2.2 3.2 4.6 2.0 1.9 1.6 1.4 2.5-3.0 0.3 0.3 0.4 8.0 0.9 2.0 0.9 1.5 1.3 1.6 1.9 1.7 1.4 8.0 1.2 3.5-4.0 0.2 0.1 0.5 1.1 0.7 1.4 1.3 1.1 1.5 0.9 1.3 1.4 1.0 0.7 1.2 4.5-5.0 0.1 0.1 0.1 0.5 0.6 8.0 8.0 0.5 0.8 0.5 8.0 0.7 0.7 0.5 0.5 5.5-6.0 (High) 0.1 0.3 0.5 0.6 1.2 0.6 0.6 0.7 0.8 0.5 0.4 0.6 0.3 0.2 Race (2-year average): b White 0.2 0.2 0.4 0.7 0.9 1.0 1.2 1.3 1.3 1.0 0.7 0.7 1.0 1.1 African American 0.2 0.9 1.0 1.0 1.2 1.0 0.1 0.4 0.7 1.2 1.3 1.1 1.2 1.2 Hispanic 0.3 0.6 1.2 1.6 2.0 1.9 1.5 1.2 1.1 1.8 1.6 1.6 1.1 1.3

TABLE 16 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 8</u>

					Percenta	age who	used dai	ly in last	30 days					
•														2017-2018
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	1	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	1.0	8.0	0.9	1.0	1.2	1.3	1.1	1.1	1.0	1.1	0.7	0.8	0.7	0.0
Gender														
Male	1.3	1.2	1.2	1.4	1.8	1.8	1.6	1.3	1.2	1.3	0.9	0.9	8.0	-0.1
Female	0.7	0.5	0.6	0.5	0.7	0.7	0.5	0.9	0.7	0.9	0.5	0.6	0.5	-0.1
College Plans:														
None or under 4 years	5.3	3.2	4.7	4.7	5.2	5.2	5.6	4.9	2.9	3.4	3.0	2.7	2.2	-0.5
Complete 4 years	0.6	0.6	0.6	0.6	0.9	1.0	0.7	8.0	8.0	8.0	0.5	0.5	0.4	-0.1
Region:														
Northeast	0.7	0.5	0.3	0.9	0.9	0.5	8.0	0.6	0.9	8.0	0.4	8.0	0.5	-0.3
Midwest	8.0	0.9	1.3	1.0	1.3	1.2	0.5	0.9	1.3	1.1	0.7	0.5	0.5	0.0
South	1.4	0.9	1.0	1.0	1.4	1.4	1.2	1.3	8.0	1.2	8.0	0.7	0.6	-0.2
West	0.9	0.7	0.8	0.9	1.1	1.9	1.6	1.5	1.1	1.1	0.9	1.0	1.3	+0.3
Population Density:														
Large MSA	0.8	0.5	0.9	0.6	0.8	1.1	0.9	1.0	1.3	1.5	0.4	0.5	0.6	+0.1
Other MSA	1.3	8.0	8.0	1.2	1.3	1.5	1.2	1.2	8.0	0.9	8.0	0.9	0.6	-0.3
Non-MSA	0.9	1.4	1.0	1.0	1.7	1.0	1.2	1.3	0.9	0.9	1.1	0.7	1.0	+0.3
Parental Education: a														
1.0-2.0 (Low)	2.6	1.3	2.6	1.9	2.5	2.2	1.9	2.3	2.0	2.5	1.3	1.2	1.4	+0.2
2.5-3.0	1.3	0.9	1.4	1.4	2.1	2.3	1.6	1.5	0.9	1.0	0.9	1.1	0.7	-0.4
3.5-4.0	0.9	1.0	0.7	8.0	1.0	1.3	1.0	1.0	1.1	0.8	0.9	8.0	0.6	-0.2
4.5-5.0	0.6	0.4	0.4	0.6	0.7	8.0	0.3	0.8	0.6	0.6	0.4	0.5	0.4	-0.1
5.5-6.0 (High)	0.3	0.5	0.5	0.6	0.3	0.5	0.6	0.5	0.7	0.7	0.4	0.4	0.3	-0.1
Race (2-year average): b											-			
White	1.0	0.9	0.7	0.8	1.0	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	-0.1
African American	1.0	1.0	1.0	1.0	1.1	1.2	1.0	1.0	1.1	1.2	1.2	1.2	1.1	-0.2
Hispanic	1.1	0.7	1.0	1.3	1.4	1.9	2.1	1.7	1.4	1.3	0.9	0.8	0.9	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '\*' indicates less than .05 percent but greater than 0 percent. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates

for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 17

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

						Percent	age who	used da	ily in last	30 days					
	<u>1991</u>	1992	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	0.8	8.0	1.0	2.2	2.8	3.5	3.7	3.6	3.8	3.8	4.5	3.9	3.6	3.2	3.1
Gender:															
Male	1.1	1.1	1.6	3.1	3.7	4.7	5.2	4.8	5.2	5.3	6.4	5.1	5.1	4.1	4.1
Female	0.5	0.4	0.4	1.2	1.7	2.3	2.1	2.4	2.4	2.3	2.6	2.6	2.2	2.2	2.0
College Plans:															
None or under 4 years	1.6	2.3	2.7	5.5	6.5	10.2	9.5	9.7	10.3	10.4	11.7	9.4	9.9	9.0	9.5
Complete 4 years	0.6	0.4	0.6	1.4	2.1	2.3	2.6	2.4	2.7	2.7	3.3	2.9	2.6	2.3	2.1
Region:															
Northeast	0.8	0.7	1.6	2.5	1.9	3.7	3.9	5.0	3.9	3.9	3.8	3.6	3.7	3.3	3.3
Midwest	0.9	0.6	1.0	2.0	2.9	3.8	3.8	3.4	4.2	4.2	4.1	4.2	2.8	3.0	3.3
South	0.6	0.6	0.7	2.2	3.2	3.0	3.9	3.4	3.6	3.4	4.5	3.2	4.2	3.4	2.9
West	1.1	1.3	1.1	2.1	2.7	3.8	2.7	2.9	3.7	3.7	6.2	5.2	3.8	3.0	2.9
Population Density:															
Large MSA	8.0	0.5	1.2	2.1	2.5	3.0	3.6	3.4	3.1	4.2	4.4	3.4	3.0	2.5	3.0
Other MSA	0.9	8.0	0.9	2.3	3.1	3.7	3.8	3.9	4.1	3.4	4.4	4.4	3.6	3.3	3.0
Non-MSA	0.7	0.9	1.1	2.0	2.4	3.7	3.6	3.3	3.9	4.0	4.8	3.7	4.8	3.8	3.4
Parental Education: a															
1.0-2.0 (Low)	1.1	1.1	1.4	2.0	4.1	3.6	3.2	3.8	4.6	4.9	6.0	4.6	5.5	5.3	3.7
2.5-3.0	0.9	8.0	1.0	2.6	3.6	4.6	4.3	4.9	5.5	4.3	5.3	4.9	4.8	3.8	4.8
3.5-4.0	0.8	0.9	1.1	2.4	2.8	4.1	4.2	3.4	3.5	4.2	4.7	3.9	3.4	3.4	3.3
4.5–5.0	8.0	0.6	0.6	1.8	1.9	2.4	3.0	3.1	2.6	3.4	3.8	2.7	2.9	2.0	2.0
5.5-6.0 (High)	0.4	0.8	1.0	1.0	2.0	2.1	2.2	2.3	2.5	2.1	3.3	3.2	2.4	1.7	1.8
Race (2-year average): b															
White	_	0.9	1.0	1.6	2.5	3.2	3.7	3.7	3.8	4.0	4.3	4.4	4.1	3.5	3.1
African American	_	0.3	0.3	0.8	1.7	2.2	2.8	3.4	3.0	3.2	3.6	3.0	2.9	2.8	2.8
Hispanic	_	0.8	1.1	1.9	2.5	2.8	3.5	3.6	3.2	3.2	4.2	3.9	3.0	2.9	3.1

TABLE 17 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

					Percenta	age who	used dai	ly in last	30 days					
Approximate weighted N =	2006 16 200	2007 16,100	2008 15,100	<u>2009</u> 15,900	2010 15,200	<u>2011</u> 14 900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13.500	2018 14.300	2017-2018 <u>change</u>
Total	2.8	2.8	2.7	2.8	3.3	3.6	3.5	4.0	3.4	3.0	2.5	2.9	3.4	+0.5
Gender:														
Male	3.5	3.9	3.8	4.1	5.1	5.4	4.6	6.2	4.3	3.6	3.1	3.3	4.2	+0.8
Female	2.0	1.8	1.7	1.7	1.6	1.7	2.4	2.0	2.4	2.4	1.9	2.4	2.5	+0.1
College Plans:														
None or under 4 years	8.9	8.3	9.2	7.9	9.5	9.5	10.5	10.0	8.8	8.8	7.4	8.1	8.9	+0.8
Complete 4 years	1.9	2.1	1.9	2.2	2.6	2.9	2.8	3.3	2.8	2.4	1.9	2.2	2.5	+0.3
Region:														
Northeast	2.8	3.2	2.8	1.9	2.9	4.3	3.2	2.8	3.4	3.0	2.4	3.2	4.1	+0.9
Midwest	2.6	2.9	2.6	2.5	2.9	2.9	3.2	3.9	3.2	2.0	2.6	3.2	2.5	-0.7
South	3.0	2.7	3.2	3.5	3.3	3.6	4.1	5.0	3.7	3.7	2.6	2.7	3.6	+0.8
West	2.5	2.7	2.4	3.1	4.3	3.8	3.5	3.7	3.3	3.0	2.4	2.9	3.5	+0.6
Population Density:														
Large MSA	2.8	2.3	2.5	2.2	2.8	3.6	2.9	3.4	3.3	2.6	2.1	2.7	3.2	+0.5
Other MSA	2.6	2.9	3.0	3.0	3.7	3.5	3.6	4.4	3.6	3.2	2.5	2.7	3.8	+1.1
Non-MSA	3.2	3.5	2.6	3.4	3.3	3.6	4.3	3.9	3.2	3.5	3.4	4.0	2.9	-1.2
Parental Education: a														
1.0-2.0 (Low)	4.2	4.9	4.2	4.6	4.5	5.8	5.5	5.8	4.3	5.1	3.0	4.3	4.9	+0.6
2.5-3.0	3.9	3.4	3.7	3.4	4.6	4.3	5.3	5.7	4.4	4.8	3.3	3.9	5.0	+1.0
3.5-4.0	2.9	3.2	3.2	2.9	3.8	3.7	3.2	4.4	4.6	3.3	3.2	3.2	3.3	+0.1
4.5–5.0	1.8	2.0	1.8	2.1	2.4	2.5	3.0	2.8	2.0	1.7	1.8	2.1	2.3	+0.2
5.5-6.0 (High)	1.9	1.6	1.3	1.9	1.7	2.9	1.8	2.2	1.4	1.8	0.9	1.9	2.3	+0.4
Race (2-year average): b														
White	3.0	3.1	2.8	2.6	2.9	3.3	3.4	3.5	3.5	3.2	3.0	2.7	2.8	+0.1
African American	2.8	2.5	2.8	2.9	3.2	3.8	4.0	4.7	4.4	3.0	2.3	2.7	3.8	+1.0 s
Hispanic	2.6	1.9	2.5	2.9	3.2	3.3	3.2	3.7	3.7	3.3	2.7	2.6	2.9	+0.4

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '--' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 18

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

<u>-</u>						Per	centage	who use	d daily in	last 30 d	ays					
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	6.0	8.2	9.1	10.7	10.3	9.1	7.0	6.3	5.5	5.0	4.9	4.0	3.3	2.7	2.9	2.2
Gender:																
Male	8.1	10.8	12.4	14.2	12.7	11.9	9.6	8.2	7.3	7.0	6.9	5.7	4.3	3.9	4.1	3.2
Female	4.0	5.0	5.6	7.1	7.3	6.0	4.2	4.0	3.2	2.5	2.8	2.3	2.1	1.3	1.5	1.0
College Plans:																
None or under 4 years	_	9.9	11.1	12.8	13.0	11.9	9.4	8.6	7.3	6.9	6.7	6.2	5.2	4.0	4.6	3.5
Complete 4 years	_	5.5	6.3	7.4	6.8	5.9	4.8	3.9	3.4	2.9	3.3	2.3	2.0	1.8	2.0	1.5
Region:																
Northeast	6.7	10.2	9.9	14.5	13.6	11.1	9.1	8.0	6.9	7.5	6.8	5.0	4.1	2.5	3.3	2.7
Midwest	6.2	8.1	8.8	11.4	11.5	9.5	8.2	6.8	5.5	4.4	5.5	4.0	3.1	2.5	3.2	2.3
South	5.0	6.7	9.1	8.5	7.0	7.5	4.5	4.8	4.5	4.1	3.0	2.8	2.9	2.6	2.6	1.7
West	6.5	8.0	8.1	8.2	9.3	8.6	6.4	5.4	5.1	4.7	4.5	4.6	3.4	3.1	2.5	2.4
Population Density:																
Large MSA	8.4	10.7	9.5	12.7	10.6	10.3	8.3	7.9	7.3	5.7	5.8	4.6	3.8	2.6	2.3	2.4
Other MSA	5.9	8.2	10.0	10.9	11.3	9.5	7.1	6.0	5.7	5.0	5.0	3.9	3.5	3.4	3.0	2.0
Non-MSA	4.5	6.3	7.6	9.0	8.6	7.7	6.0	5.3	3.8	4.4	3.8	3.6	2.6	1.4	3.3	2.4
Parental Education: a																
1.0-2.0 (Low)	4.4	6.8	6.9	8.6	8.4	8.2	6.2	6.2	5.7	5.1	4.2	4.1	4.0	2.5	2.4	2.0
2.5-3.0	5.7	8.2	9.9	11.3	10.9	10.0	7.5	6.5	5.4	5.4	5.5	4.4	2.9	2.7	2.6	2.3
3.5-4.0	5.0	8.0	9.0	10.3	10.1	8.7	6.4	6.4	5.2	4.6	4.7	3.7	3.5	2.4	2.6	1.9
4.5-5.0	5.5	8.8	8.6	10.4	9.0	7.8	6.4	5.7	5.0	4.0	4.2	3.5	2.9	2.6	3.3	2.1
5.5-6.0 (High)	4.3	8.1	9.0	10.2	10.4	8.0	7.1	4.8	3.7	4.0	3.6	2.3	2.7	2.3	2.7	2.5
Race (2-year average): b																
White	_	_	8.6	10.2	10.8	9.7	8.0	6.8	5.9	5.1	4.9	4.5	3.7	3.2	3.1	2.8
African American	_	_	6.4	6.0	5.1	5.8	5.4	4.3	4.1	3.6	3.3	3.1	2.3	1.3	0.9	0.7
Hispanic			6.9	6.3	6.5	8.3	6.9	5.7	5.3	4.7	3.9	3.3	3.0	2.1	1.9	2.0

TABLE 18 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

# Percentage who used daily in last 30 days

•															
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	<u>2005</u>
Approximate weighted N =		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	2.0	1.9	2.4	3.6	4.6	4.9	5.8	5.6	6.0	6.0	5.8	6.0	6.0	5.6	5.0
Gender:															
Male	3.0	2.8	3.3	5.1	6.5	6.8	8.1	7.7	7.9	8.2	7.9	8.7	8.3	7.7	7.2
Female	0.9	1.0	1.5	2.0	2.4	2.7	3.1	3.2	3.9	3.5	3.6	3.1	3.4	3.1	2.8
College Plans:															
None or under 4 years	3.3	3.5	3.6	4.9	6.8	7.1	8.0	9.8	9.2	9.8	8.8	10.3	9.4	8.1	8.4
Complete 4 years	1.4	1.2	2.0	2.9	3.5	3.9	4.7	4.0	4.7	4.4	4.4	4.6	4.5	4.5	4.0
Region:															
Northeast	2.4	2.4	3.0	4.1	5.1	6.2	6.9	6.8	5.7	7.3	7.7	7.4	7.8	6.8	5.5
Midwest	1.9	1.8	2.3	4.1	4.1	5.2	5.2	5.3	6.2	5.9	6.8	6.2	5.7	5.1	5.4
South	1.8	1.3	1.7	3.0	4.3	3.8	5.3	4.9	5.2	4.6	3.9	5.6	5.4	5.0	5.4
West	2.1	2.6	3.3	3.3	5.3	4.8	6.3	6.5	7.6	7.4	5.9	5.1	5.6	6.1	3.6
Population Density:															
Large MSA	1.9	1.9	2.5	3.7	5.3	5.5	4.6	5.4	5.4	5.7	5.9	6.0	4.4	5.3	5.3
Other MSA	2.5	1.7	2.4	3.9	4.5	5.0	6.6	5.9	5.8	6.3	5.7	6.1	7.6	6.3	5.0
Non-MSA	1.2	2.1	2.3	2.8	3.9	4.1	5.4	5.4	7.1	5.9	6.0	5.6	5.2	4.7	4.7
Parental Education: a															
1.0-2.0 (Low)	2.3	1.6	2.3	2.3	4.0	3.9	4.9	6.2	8.8	7.7	5.5	4.5	5.0	5.5	4.3
2.5-3.0	2.4	1.9	2.1	3.8	4.9	5.1	5.8	5.7	6.2	6.3	5.8	7.0	6.0	5.5	5.7
3.5-4.0	1.8	1.8	2.8	3.6	4.0	5.0	5.7	5.8	5.5	5.9	5.7	6.7	6.4	6.0	5.0
4.5-5.0	1.7	1.6	2.3	3.6	4.3	4.8	6.1	5.0	5.5	5.3	5.4	4.8	5.5	5.5	5.1
5.5-6.0 (High)	1.6	2.0	2.1	3.1	3.9	4.1	4.8	4.1	4.6	4.1	4.4	4.6	3.9	3.7	3.8
Race (2-year average): b															
White	2.2	2.0	2.4	3.2	4.1	4.7	5.5	5.9	5.8	6.0	6.2	6.4	6.5	6.3	5.8
African American	0.7	0.5	8.0	2.0	3.2	3.7	3.9	4.4	4.7	4.6	4.1	3.7	3.7	3.2	3.5
Hispanic	2.2	2.1	1.9	2.0	3.0	4.2	4.5	4.7	6.0	6.9	5.0	4.0	4.0	4.0	3.7

TABLE 18 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

					Percenta	age who	used dai	ly in last	30 days					
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
Ammunimenta continhta d N	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100		12,600	12,400	12,900	11,800	12,600	13,300	0.0
Total	5.0	5.1	5.4	5.2	6.1	6.6	6.5	6.5	5.8	6.0	6.0	5.9	5.8	-0.2
Gender:			<b>-</b> 0						0.5			7.0		
Male	6.3	6.8	7.6	7.5	8.8	9.7	9.1	8.9	8.5	8.1	8.0	7.8	7.2	-0.7
Female	3.2	3.2	3.0	2.6	3.2	3.3	3.6	3.8	3.3	3.8	3.6	3.6	3.4	-0.2
College Plans:														
None or under 4 years	9.3	9.6	9.2	8.3	10.5	11.5	9.0	10.7	9.8	9.7	9.5	10.4	9.2	-1.2
Complete 4 years	3.7	3.8	4.2	4.1	4.7	5.4	5.5	5.1	4.6	5.0	4.9	4.6	4.1	-0.4
Region:														
Northeast	7.9	7.0	6.8	5.3	7.5	7.1	7.1	8.0	7.0	7.0	7.6	7.3	6.5	-0.9
Midwest	4.9	5.7	4.8	6.0	5.8	6.8	6.0	5.5	6.2	5.6	5.6	6.0	6.4	+0.5
South	4.2	4.3	5.5	5.0	6.1	6.3	6.1	6.4	5.3	5.5	5.0	4.7	4.2	-0.5
West	3.7	4.0	4.9	4.4	5.4	6.5	7.0	6.5	5.4	6.6	6.9	6.9	7.2	+0.3
Population Density:														
Large MSA	4.9	4.7	5.6	5.4	6.3	6.2	7.4	6.6	5.2	6.4	6.7	6.1	6.4	+0.3
Other MSA	5.0	5.1	5.3	5.3	6.7	7.5	6.4	7.1	6.6	5.9	5.5	5.4	5.1	-0.3
Non-MSA	5.1	5.5	5.6	4.6	4.3	5.0	5.2	4.7	4.8	5.8	6.1	7.0	6.1	-0.9
Parental Education: a														
1.0-2.0 (Low)	4.6	5.6	4.8	3.5	4.6	5.1	5.2	7.8	5.8	6.1	6.4	6.6	4.8	-1.8
2.5-3.0	6.0	5.8	5.4	5.5	6.1	7.4	7.6	8.7	6.5	7.1	6.8	7.6	6.7	-0.9
3.5-4.0	4.9	5.0	4.9	5.5	6.6	6.9	7.2	6.9	6.4	5.9	6.2	6.4	6.0	-0.3
4.5-5.0	4.3	4.3	5.8	4.7	5.4	5.8	6.1	4.3	4.6	5.0	5.0	4.0	4.1	+0.1
5.5-6.0 (High)	3.6	3.8	4.9	4.1	4.7	6.0	4.4	4.8	4.5	4.9	3.7	3.5	4.4	+0.9
Race (2-year average): b														
White	5.4	5.4	5.7	5.8	5.9	6.6	6.9	6.5	6.2	5.9	5.5	5.9	5.8	0.0
African American	4.4	4.5	3.8	4.3	6.1	6.5	6.0	6.2	6.1	6.3	7.1	6.6	5.9	-0.6
Hispanic	3.2	3.2	3.4	3.6	4.1	4.6	4.8	6.1	5.7	4.8	5.1	5.0	4.3	-0.7

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 19
SYNTHETIC MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 8

		P	ercentag	e who us	ed in last	12 month	ns		
•									2017-
	1991-								2018
	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	_	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	4.4	4.0	3.3	3.1	2.7	2.0	1.6	-0.5
Gender:									
Male	_	4.1	3.8	2.9	2.6	2.6	2.3	1.8	-0.5
Female	_	4.6	4.1	3.6	3.5	2.8	1.6	1.4	-0.2
College Plans:									
None or under 4 years	_	10.2	13.8	11.6	9.9	8.5	7.4	2.2	-5.2 ss
Complete 4 years	_	3.9	3.3	2.6	2.6	2.2	1.4	1.4	0.0
Region:									
Northeast	_	2.7	3.5	3.5	1.6	1.5	0.8	1.5	+0.6
Midwest	_	2.4	2.8	2.6	2.9	2.7	1.6	1.2	-0.5
South	_	5.6	4.2	2.6	3.1	2.8	2.5	1.6	-0.9
West	_	5.5	5.1	5.1	4.6	3.3	2.3	2.0	-0.3
Population Density:									
Large MSA	_	4.0	3.8	3.5	2.8	2.4	1.7	1.3	-0.4
Other MSA	_	4.9	3.9	2.6	3.4	2.5	2.4	1.8	-0.7
Non-MSA	_	3.8	4.2	4.3	3.0	3.6	1.4	1.5	0.0
Parental Education: a									
1.0-2.0 (Low)	_	5.9	8.5	6.9	7.5	5.3	3.8	2.9	-0.9
2.5–3.0	_	6.4	4.0	4.3	3.5	3.3	2.0	1.5	-0.5
3.5-4.0	_	5.5	4.8	2.9	3.1	4.3	2.2	1.5	-0.7
4.5–5.0	_	2.9	3.0	2.4	2.1	1.0	1.3	1.6	+0.3
5.5-6.0 (High)	_	1.8	2.7	2.7	1.3	1.4	1.2	1.0	-0.2
Race/Ethnicity (2-year data:) b									
White	_	_	3.1	2.9	2.2	2.1	1.8	1.1	-0.6 s
African American	_	_	2.8	2.3	2.0	2.5	2.9	2.4	-0.5
Hispanic	_	_	7.6	5.3	4.3	3.7	2.7	2.5	-0.2

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 20
SYNTHETIC MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 10

		P	ercentag	e who us	ed in last	12 month	IS		
									2017–
	1991–								2018
	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	8.8	7.4	5.4	4.3	3.3	2.7	2.9	+0.3
Gender:									
Male	_	10.0	7.9	5.1	4.3	2.9	2.9	3.4	+0.5
Female	_	7.7	6.9	5.6	4.4	3.6	2.4	2.4	-0.1
College Plans:									
None or under 4 years	_	18.7	16.5	12.9	11.4	7.8	5.5	4.7	-0.8
Complete 4 years	_	7.8	6.5	4.5	3.6	2.8	2.4	2.6	+0.2
Region:									
Northeast	_	7.7	6.9	3.8	4.6	4.2	1.3	3.3	+2.0
Midwest	_	9.2	6.3	5.8	3.4	2.7	2.7	2.6	0.0
South	_	10.0	7.0	5.6	4.0	3.4	1.6	2.0	+0.4
West	_	7.4	9.4	6.1	5.7	3.0	5.0	4.6	-0.4
Population Density:									
Large MSA	_	7.7	6.4	5.6	4.6	2.8	1.9	3.7	+1.8 s
Other MSA	_	8.3	7.6	4.9	4.1	3.5	3.0	2.5	-0.5
Non-MSA	_	11.4	8.4	6.4	4.4	3.4	3.1	2.9	-0.2
Parental Education: a									
1.0-2.0 (Low)	_	10.5	8.6	6.6	8.5	4.4	5.0	5.5	+0.6
2.5–3.0	_	13.4	10.5	7.5	6.1	4.4	2.2	3.0	+0.8
3.5-4.0	_	9.0	8.4	6.9	5.0	3.8	3.2	2.8	-0.4
4.5-5.0	_	7.2	4.9	3.3	3.0	2.0	2.1	1.9	-0.1
5.5-6.0 (High)	_	6.4	4.8	3.4	2.0	2.4	1.4	3.2	+1.8 s
Race/Ethnicity (2-year data:) b									
White	_	_	8.4	6.2	4.5	3.5	2.6	2.2	-0.4
African American	_	_	3.6	4.1	4.1	3.4	3.0	2.2	-0.8
Hispanic	_	_	8.8	7.4	5.7	5.1	4.0	4.3	+0.2

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S2.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 21

SYNTHETIC MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

			Perce	ntage who	used in	last 12 m	onths			
										2017–
	2009–									2018
	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	11.4	11.3	7.9	5.8	5.2	3.5	3.7	3.5	-0.2
Gender:										
Male	_	14.7	14.1	8.7	6.2	5.2	3.1	3.0	3.0	-0.1
Female	_	7.9	7.9	6.8	5.3	5.2	3.5	4.2	3.4	-0.9
College Plans:										
None or under 4 years	_	18.9	16.7	11.8	5.8	8.0	5.7	5.6	5.4	-0.2
Complete 4 years	_	10.0	9.9	7.0	5.8	4.4	2.8	3.3	2.9	-0.4
Region:										
Northeast	_	11.9	10.7	7.4	5.1	4.3	3.9	2.4	2.2	-0.3
Midwest	_	13.5	14.2	7.6	6.6	5.3	3.8	3.8	3.8	0.0
South	_	11.0	9.3	7.9	6.2	4.3	3.4	3.4	4.0	+0.6
West	_	9.5	11.1	8.4	5.0	7.1	3.2	4.8	3.1	-1.7
Population Density:										
Large MSA	_	9.7	13.3	6.8	5.9	5.4	3.3	3.3	3.3	0.0
Other MSA	_	12.3	10.3	8.2	6.3	5.0	3.9	3.2	3.7	+0.4
Non-MSA	_	11.7	10.8	8.6	4.6	5.2	2.8	5.5	3.4	-2.1
Parental Education: a										
1.0-2.0 (Low)	_	13.2	10.7	8.8	7.5	6.1	4.1	5.1	7.1	+2.0
2.5-3.0	_	12.9	12.3	7.0	7.0	5.9	4.8	4.8	3.6	-1.2
3.5-4.0	_	12.1	12.8	8.4	5.6	5.2	3.7	4.7	2.6	-2.1 s
4.5–5.0	_	9.2	11.0	8.5	5.2	4.2	2.5	1.8	3.0	+1.2
5.5-6.0 (High)	_	11.3	8.5	5.1	4.2	4.4	2.3	2.6	2.1	-0.5
Race/Ethnicity (2-year data:) b										
White	_	_	12.9	10.4	6.9	5.3	4.3	3.6	3.0	-0.6
African American	_	_	6.0	6.5	5.8	3.7	2.8	2.8	2.8	0.0
Hispanic	_	_	9.9	9.6	7.6	6.9	6.1	4.4	5.0	+0.5

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 22

INHALANTS: Trends in Annual Prevalence of Use by Subgroups in Grade 8

						Percer	ntage wh	o used ir	n last 12	months					
Approximate weighted N =	1991 17.500	<u>1992</u> 18,600	1993 18,300	1994 17.300	1995 17.500	1996 17.800	<u>1997</u> 18.600	<u>1998</u> 18.100	1999 16.700	2000 16.700	2001 16.200	2002 15.100	2003 16.500	2004 17.000	2005 16.800
Total	9.0	9.5	11.0	11.7	12.8	12.2	11.8	11.1	10.3	9.4	9.1	7.7	8.7	9.6	9.5
Gender:															
Male	9.0	9.2	10.4	11.2	11.5	10.3	10.5	10.6	9.5	8.9	8.4	7.6	7.7	8.8	7.8
Female	9.0	9.8	11.9	12.2	14.0	14.1	12.9	11.6	11.1	9.9	9.9	7.8	9.6	10.5	11.1
College Plans:															
None or under 4 years	15.0	15.6	17.7	18.3	19.6	18.2	18.1	20.9	17.9	17.2	15.1	14.5	16.5	17.9	15.3
Complete 4 years	8.1	8.8	10.2	10.9	11.9	11.4	11.2	10.2	9.5	8.6	8.6	7.1	8.0	8.7	9.0
Region:															
Northeast	8.0	8.6	11.3	12.0	13.1	11.7	12.1	9.1	9.8	8.7	9.4	6.9	9.0	8.9	9.1
Midwest	9.8	10.5	9.9	10.3	13.8	13.3	11.3	11.3	10.6	10.6	8.8	8.0	9.6	9.6	8.5
South	8.9	9.1	10.0	11.3	12.1	11.3	11.6	11.3	9.9	8.4	9.5	8.4	7.9	9.9	9.8
West	8.8	9.8	14.2	14.0	12.4	12.9	12.6	12.4	10.9	10.5	8.6	6.4	8.9	9.6	10.4
Population Density:															
Large MSA	9.9	9.1	10.8	11.6	11.7	11.4	10.4	8.6	8.8	8.3	8.3	7.1	8.0	8.8	8.8
Other MSA	8.5	10.3	12.3	13.1	13.7	13.4	11.5	11.1	10.1	9.4	8.9	8.0	8.5	10.3	10.7
Non-MSA	9.1	8.6	8.5	9.3	12.3	11.0	13.9	14.0	12.3	10.9	10.4	7.8	10.1	9.2	8.3
Parental Education: a															
1.0-2.0 (Low)	12.0	11.4	11.5	12.4	13.0	11.3	12.1	14.4	12.9	13.1	10.7	10.3	10.6	12.6	11.6
2.5-3.0	9.5	9.9	10.9	12.1	13.9	12.6	12.6	12.0	11.8	11.3	9.7	8.3	10.1	10.2	11.6
3.5-4.0	8.9	10.0	11.5	12.3	14.7	13.4	13.5	12.8	10.8	9.9	9.4	8.9	10.3	11.0	10.0
4.5-5.0	8.0	8.4	10.6	11.0	12.3	13.2	11.4	9.7	9.2	7.1	9.0	7.3	7.4	9.3	8.4
5.5-6.0 (High)	8.4	10.3	12.6	12.2	11.6	11.7	10.8	10.6	9.1	9.2	7.7	6.2	6.5	6.9	8.0
Race/Ethnicity (2-year average): b															
White	_	10.1	11.3	12.4	13.8	14.6	14.1	13.3	12.1	10.9	10.1	9.1	8.8	9.6	9.8
African American	_	4.4	4.6	5.3	5.0	4.2	3.8	4.2	4.2	4.3	4.8	5.0	4.9	5.4	5.8
Hispanic	_	10.4	11.5	12.5	13.3	12.7	11.4	11.5	12.7	12.2	11.0	9.9	9.6	10.6	11.0

TABLE 22 (cont.)

INHALANTS: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

#### Percentage who used in last 12 months 2017-2018 2007 2006 2008 2009 2010 2011 2012 2013 2014<sup>c</sup> 2015<sup>c</sup> 2016<sup>c</sup> 2018<sup>c</sup> change 2017<sup>c</sup> Approximate weighted N = 16,50015,700 15,000 15,300 16,000 15,100 14,600 Total 9.1 8.1 7.0 6.2 5.2 5.3 4.6 3.8 4.7 4.6 -0.1 8.1 Gender: Male 7.7 7.3 7.0 7.0 6.4 5.5 4.5 4.0 4.0 3.8 2.9 4.0 3.6 -0.4 Female 10.5 9.3 9.5 8.6 7.9 6.3 6.2 5.2 4.7 5.3 5.4 +0.1 College Plans: 8.6 None or under 4 years 17.3 18.1 19.1 16.7 13.1 12.8 11.2 10.9 10.7 7.6 8.3 8.0 -0.4 Complete 4 years 8.3 7.5 7.5 7.7 6.7 5.9 4.8 4.3 3.3 4.3 4.2 -0.1 8.0 Region: Northeast 7.2 5.9 7.9 7.4 7.4 6.7 5.6 5.3 4.1 4.6 2.6 4.3 3.7 -0.6 Midwest 9.0 8.1 9.1 7.6 7.9 5.8 5.5 4.1 4.9 4.7 4.5 4.5 4.7 +0.2 South 8.3 9.1 9.1 9.6 8.9 7.1 6.4 5.1 5.6 5.0 3.8 4.7 4.3 -0.5 West 10.5 8.8 8.4 7.9 8.3 8.4 7.2 6.3 5.9 3.7 3.8 5.0 5.5 +0.5 Population Density: Large MSA 4.6 8.8 8.6 8.7 7.1 7.2 6.7 6.6 5.1 5.1 4.2 3.4 4.3 +0.2 Other MSA 8.6 7.3 4.7 3.7 -0.3 9.0 8.3 8.9 8.8 6.5 5.3 4.9 4.6 4.4 Non-MSA 9.7 7.9 9.2 8.1 8.0 7.1 5.0 5.1 6.3 4.9 4.6 5.2 5.0 -0.2 Parental Education: a 1.0-2.0 (Low) 10.5 11.9 13.3 11.8 12.2 10.7 8.9 8.6 7.2 5.3 6.1 5.8 5.8 -0.1 2.5-3.0 5.5 10.7 9.3 10.8 9.5 9.8 8.1 7.8 6.0 6.7 4.3 5.7 4.8 -0.9 3.5-4.0 10.3 9.5 8.2 8.1 6.8 6.2 5.9 4.9 3.5 5.5 -0.1 9.2 9.3 5.4 4.5-5.0 7.8 7.6 7.3 6.9 6.7 5.5 5.0 4.0 4.2 3.9 3.6 4.1 3.9 -0.2 5.5-6.0 (High) 7.9 6.3 7.8 6.1 6.6 6.2 5.2 3.8 4.1 3.7 3.2 4.2 4.1 -0.1 Race/Ethnicity (2-year average): b White 9.7 8.9 8.5 8.6 8.0 7.1 5.9 4.9 4.4 4.3 3.9 4.2 4.5 +0.3

Source. The Monitoring the Future study, the University of Michigan.

African American

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

10.3

5.5

10.7

5.1

10.5

5.6

9.0

5.1

7.6

4.7

6.5

4.4

4.8

3.6

3.3

+0.4

+0.3

5.5

9.2

5.6

10.2

5.4

9.5

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Beginning in 2014 data are based on three of four forms; N is two thirds of N indicated.

TABLE 23

INHALANTS: Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percer	ntage wh	o used ir	n last 12	months					
	<u>1991</u>	1992	1993	<u>1994</u>	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	<u>2005</u>
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	7.1	7.5	8.4	9.1	9.6	9.5	8.7	8.0	7.2	7.3	6.6	5.8	5.4	5.9	6.0
Gender:															
Male	7.4	7.6	9.1	9.7	10.3	10.1	9.1	8.4	7.6	7.7	6.7	5.4	5.2	5.8	5.0
Female	6.6	7.5	7.7	8.6	8.9	8.9	8.2	7.6	6.9	7.0	6.5	6.0	5.6	6.1	6.9
College Plans:															
None or under 4 years	12.0	12.4	14.0	15.1	14.6	14.3	14.4	13.5	11.6	11.2	11.0	9.8	9.6	11.2	9.9
Complete 4 years	5.9	6.4	7.3	7.8	8.7	8.7	7.7	7.0	6.5	6.7	5.9	5.2	4.8	5.2	5.5
Region:															
Northeast	7.2	7.8	10.6	9.8	10.4	11.5	8.9	9.3	8.3	7.2	6.5	6.0	5.9	6.1	6.2
Midwest	7.5	8.0	8.3	8.4	10.4	9.8	8.3	6.7	8.4	7.5	6.5	5.8	6.1	5.7	6.1
South	7.2	6.6	7.3	9.0	9.4	9.1	8.8	8.3	6.5	7.4	6.8	5.4	4.6	5.6	5.6
West	6.2	8.0	8.4	9.9	8.1	8.0	8.5	7.8	6.1	7.2	6.7	6.2	5.5	6.6	6.1
Population Density:															
Large MSA	7.7	7.8	8.5	7.9	8.7	8.1	8.1	6.7	6.9	7.1	6.0	5.1	4.8	5.0	6.2
Other MSA	7.1	7.4	8.4	9.8	9.7	9.6	8.4	7.7	7.0	6.8	6.9	5.4	5.2	6.3	5.6
Non-MSA	6.5	7.5	8.6	9.1	10.5	11.0	9.8	10.1	8.3	8.5	7.0	7.4	7.1	6.5	6.5
Parental Education: a															
1.0-2.0 (Low)	7.0	8.2	10.2	8.7	9.4	10.8	9.3	9.7	8.7	8.5	7.6	5.6	5.8	6.2	6.3
2.5-3.0	8.0	7.9	9.1	9.5	11.0	9.9	8.5	9.1	8.0	8.1	7.5	6.0	6.3	6.9	6.9
3.5-4.0	7.5	8.3	8.3	9.6	10.2	10.1	9.4	8.1	6.9	7.4	5.9	6.3	5.8	5.7	6.2
4.5–5.0	6.4	6.5	7.2	8.7	9.4	8.4	8.3	7.1	6.7	6.5	6.8	5.6	5.1	5.7	5.8
5.5-6.0 (High)	6.6	6.7	8.2	8.2	7.0	10.1	8.2	6.7	7.2	7.2	5.5	5.2	4.4	5.1	5.3
Race/Ethnicity (2-year average): b															
White	_	8.3	8.8	9.6	10.6	11.0	10.4	9.6	8.9	8.4	7.9	7.1	6.6	6.5	6.6
African American	_	3.6	3.7	3.3	2.8	2.3	2.3	2.4	2.0	2.0	2.1	2.4	2.0	2.1	2.8
Hispanic	_	6.4	8.3	9.0	8.5	8.2	7.9	7.6	7.3	6.3	5.9	4.8	4.8	5.7	6.2

TABLE 23 (cont.)

INHALANTS: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

-					Percen	tage wh	o used ir	n last 12	months					
Approximate weighted N =	2006 16,200	2007 16,100	2008 15,100	<u>2009</u> 15,900	<u>2010</u> 15,200	<u>2011</u> 14,900	<u>2012</u> 15,000	2013 12,900	2014 <sup>c</sup> 13,000	2015 <sup>c</sup> 15,600	2016 <sup>c</sup> 14,700	2017 <sup>c</sup> 13,500	2018 <sup>c</sup> 14,300	2017-2018 <u>change</u>
Total	6.5	6.6	5.9	6.1	5.7	4.5	4.1	3.5	3.3	2.9	2.4	2.3	2.4	+0.1
Gender:														
Male	5.9	6.3	5.4	5.4	5.0	4.1	3.4	3.4	2.8	2.7	2.2	2.1	2.0	-0.1
Female	7.1	7.0	6.3	6.7	6.3	4.8	4.8	3.5	3.8	3.0	2.6	2.5	2.7	+0.2
College Plans:														
None or under 4 years	10.6	12.0	11.1	11.7	12.1	9.7	8.8	6.0	6.5	5.7	4.3	4.6	4.1	-0.5
Complete 4 years	5.9	5.9	5.3	5.4	5.0	3.9	3.6	3.2	3.0	2.6	2.2	2.0	2.2	+0.2
Region:														
Northeast	6.5	6.4	4.9	6.1	4.9	4.8	3.8	2.6	2.5	2.7	2.1	2.0	2.0	0.0
Midwest	6.7	6.8	5.7	5.7	5.8	3.9	3.8	3.3	3.6	2.4	2.1	1.6	2.0	+0.3
South	5.7	6.1	5.6	5.2	5.8	4.3	4.2	3.2	3.8	2.9	2.7	3.0	2.9	-0.1
West	7.2	7.3	7.2	7.6	6.3	5.1	4.4	4.5	3.2	3.5	2.6	2.1	2.2	+0.1
Population Density:														
Large MSA	6.0	6.0	5.3	6.1	5.6	4.5	3.9	3.3	3.2	3.2	2.2	2.2	1.9	-0.3
Other MSA	6.4	6.8	6.4	6.2	5.4	4.2	3.6	3.4	3.1	2.7	2.4	2.1	2.6	+0.5
Non-MSA	7.4	7.1	5.5	5.9	6.4	4.9	5.2	3.7	4.2	2.9	2.9	2.9	2.5	-0.4
Parental Education: a														
1.0-2.0 (Low)	6.9	9.3	8.7	7.1	9.0	6.0	5.4	4.1	4.6	5.7	2.9	2.0	1.0	-1.0
2.5-3.0	6.2	7.5	6.7	7.4	6.9	5.4	4.7	4.5	4.7	3.5	2.3	2.4	2.4	0.0
3.5-4.0	7.1	7.0	6.3	6.5	5.7	4.5	3.9	3.8	3.3	3.2	2.6	2.7	2.9	+0.2
4.5-5.0	5.5	5.8	5.0	4.9	4.8	3.7	3.9	2.9	2.7	2.3	2.2	2.3	3.1	+0.8
5.5-6.0 (High)	7.5	5.4	4.5	4.8	4.4	3.8	3.6	2.3	2.3	1.9	2.9	1.5	1.7	+0.1
Race/Ethnicity (2-year average): b														
White	6.8	7.1	6.5	5.9	5.7	4.8	4.1	3.6	3.2	2.9	2.5	2.3	2.3	0.0
African American	2.9	2.9	2.9	3.2	3.1	2.9	2.4	2.6	3.1	2.7	1.9	2.0	2.8	+0.8
Hispanic	6.4	6.4	7.2	7.9	7.5	6.8	5.7	4.8	4.2	3.7	2.8	2.2	1.9	-0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

 $<sup>^{\</sup>mathrm{c}}$ Beginning in 2014 data are based on three of four forms; N is two thirds of N indicated.

TABLE 24
INHALANTS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

						Pe	rcentage	who use	ed in last	12 mont	hs					
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	3.0	3.7	4.1	5.4	4.6	4.1	4.5	4.3	5.1	5.7	6.1	6.9	6.5	5.9	6.9
Adjusted <sup>b</sup>	_	_	_	_	8.9	7.9	6.1	6.6	6.2	7.2	7.5	8.9	8.1	7.1	6.9	7.5
Gender:																
Male	_	3.8	5.1	5.6	6.7	5.9	5.1	5.8	5.8	6.5	6.9	7.8	8.3	8.2	7.8	8.8
Female	_	2.0	2.4	2.8	4.2	3.5	3.2	3.1	2.8	3.8	4.5	4.7	5.6	4.9	4.0	4.9
College Plans:																
None or under 4 years	_	3.6	4.7	5.0	6.3	5.0	4.3	4.9	4.7	5.8	5.8	7.7	8.0	8.1	7.1	7.8
Complete 4 years	_	2.2	2.9	3.4	4.5	4.3	4.0	4.1	3.9	4.7	5.7	5.2	6.4	6.0	5.4	6.4
Region:																
Northeast	_	3.2	4.1	4.4	6.4	6.0	5.2	6.2	5.0	6.1	8.0	5.6	6.7	6.0	6.3	7.4
Midwest	_	2.6	4.2	4.8	5.9	4.6	3.8	3.6	4.5	5.0	5.8	6.7	8.6	7.2	6.7	8.0
South	_	3.8	3.3	3.6	4.3	3.4	3.2	3.8	3.8	4.6	4.2	5.7	6.1	6.8	5.5	6.4
West	_	1.7	3.0	3.6	4.9	4.9	4.7	4.4	4.3	5.3	5.4	6.6	6.2	5.6	4.8	5.7
Population Density:																
Large MSA	_	2.9	3.4	3.4	5.1	5.7	4.7	5.5	4.8	5.3	5.9	5.2	6.0	6.5	5.1	6.7
Other MSA	_	2.6	3.6	3.7	4.8	4.2	4.0	3.9	4.4	5.0	5.9	6.3	6.9	6.0	5.8	6.8
Non-MSA	_	3.4	4.2	5.3	6.2	4.4	3.7	4.4	3.9	5.2	5.4	6.6	7.8	7.5	6.8	7.4
Parental Education: c																
1.0-2.0 (Low)	_	3.7	3.9	4.5	5.2	3.6	3.6	3.2	3.1	4.5	4.2	4.9	4.6	5.3	5.9	5.0
2.5–3.0	_	3.1	4.1	4.0	5.0	4.8	4.0	4.8	4.0	5.2	5.6	6.1	6.8	6.3	5.5	6.9
3.5-4.0	_	3.1	3.4	4.1	5.1	4.7	4.0	4.6	4.9	5.6	5.5	6.2	7.1	5.8	6.1	7.2
4.5–5.0	_	2.7	3.0	3.9	5.8	4.3	4.4	4.4	5.2	5.0	7.0	6.9	7.2	7.0	5.7	7.4
5.5-6.0 (High)	_	3.7	4.2	5.0	7.2	5.8	4.9	6.0	4.7	5.6	6.8	6.4	8.7	9.1	6.8	7.6
Race/Ethnicity (2-year average): d																
White	_	_	3.6	4.3	5.1	5.3	4.7	4.7	4.8	5.1	5.9	6.5	7.3	7.6	7.0	7.2
African American	_	_	1.5	1.3	2.1	2.2	2.1	1.9	1.8	2.2	2.0	2.1	3.0	3.1	2.2	2.1
Hispanic	_	_	27	3.0	29	29	3.5	4 1	3.4	4.6	6.5	5.5	4.6	4 1	47	4.8

TABLE 24 (cont.)

INHALANTS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Percer	ntage wh	o used in	last 12 r	nonths					
	<u>1991</u>	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N	= 15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	6.6	6.2	7.0	7.7	8.0	7.6	6.7	6.2	5.6	5.9	4.5	4.5	3.9	4.2	5.0
Adjusted <sup>b</sup>	6.9	6.4	7.4	8.2	8.4	8.5	7.3	7.1	6.0	6.2	4.9	4.9	4.5	4.6	5.4
Gender:															
Male	8.2	8.0	9.2	9.6	9.9	9.1	8.3	7.5	6.5	6.8	5.5	5.8	5.2	4.8	6.2
Female	5.0	4.5	4.8	6.0	6.2	6.1	5.2	5.1	4.9	5.1	3.5	3.3	2.9	3.4	4.1
College Plans:															
None or under 4 years	7.7	7.7	8.0	9.0	9.7	8.2	8.0	7.9	6.5	6.7	6.6	6.3	5.1	5.6	7.3
Complete 4 years	6.3	5.7	6.7	7.4	7.4	7.3	6.5	5.7	5.4	5.5	3.9	4.2	3.5	3.8	4.6
Region:															
Northeast	6.7	6.0	8.9	10.3	10.3	10.8	9.4	8.0	6.2	6.3	5.7	5.4	5.1	4.3	6.0
Midwest	8.6	7.4	6.3	9.5	8.6	7.6	6.9	7.6	6.3	5.5	5.0	5.6	3.7	3.8	5.6
South	5.0	4.8	6.5	6.2	7.0	6.5	5.6	5.1	5.2	5.5	3.4	4.1	3.5	4.1	4.6
West	6.8	7.5	7.0	5.7	6.7	6.0	5.4	4.7	4.9	6.7	4.8	3.2	3.6	4.6	4.3
Population Density:															
Large MSA	5.2	6.0	7.4	7.6	8.5	7.8	5.9	5.5	4.8	6.3	4.4	4.4	3.5	4.0	5.0
Other MSA	7.8	6.6	7.3	7.7	7.8	7.9	6.5	6.1	5.3	4.9	4.3	4.4	4.4	4.1	5.1
Non-MSA Parental Education: c	5.8	5.6	6.0	7.6	7.8	7.0	8.1	7.4	6.9	7.2	5.2	4.8	3.7	4.3	4.9
1.0-2.0 (Low)	6.1	4.2	4.3	5.3	7.5	5.8	5.4	6.3	4.8	4.0	3.2	5.7	3.4	4.6	5.2
2.5–3.0	6.6	6.7	6.0	7.8	8.0	7.9	6.3	6.0	5.4	5.2	5.7	4.3	3.8	4.9	5.7
3.5-4.0	6.1	6.3	7.7	7.1	6.7	7.8	7.1	7.3	6.1	6.1	4.2	4.5	3.9	5.0	4.8
4.5-5.0	7.4	6.3	7.6	8.9	8.9	7.4	7.9	5.3	5.6	5.9	3.8	4.7	4.4	3.4	5.8
5.5-6.0 (High)	7.1	6.7	9.4	9.7	9.7	8.5	6.0	6.2	6.1	7.5	5.8	4.6	4.0	3.2	3.0
Race/Ethnicity (2-year average): d															
White	7.6	7.2	7.6	8.6	9.1	9.0	8.6	7.9	7.0	6.4	5.9	5.2	4.9	4.7	5.1
African American	2.7	2.5	2.2	2.4	2.6	2.2	1.9	1.7	1.4	1.9	2.2	1.9	1.5	1.3	1.9
Hispanic	5.4	6.0	5.7	5.5	5.8	5.9	4.7	4.5	5.5	6.3	4.5	3.4	2.7	2.9	5.3

TABLE 24 (cont.)

INHALANTS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	.0.4
Total	4.5	3.7	3.8	3.4	3.6	3.2	2.9	2.5	1.9	1.9	1.7	1.5	1.6	+0.1
Adjusted <sup>b</sup>	4.7	4.1	4.0	4.1	_	_	_	_	_	_	_	_	_	_
Gender:														
Male	5.1	3.9	4.4	3.6	4.7	3.3	3.1	2.9	2.1	2.1	1.5	1.4	1.8	+0.4
Female	3.9	3.4	3.2	3.2	2.5	3.0	2.6	2.2	1.8	1.6	1.7	1.6	1.2	-0.3
College Plans:														
None or under 4 years	6.8	4.4	6.1	4.7	4.5	6.2	3.7	3.9	3.1	4.1	2.2	2.7	2.1	-0.6
Complete 4 years	3.9	3.5	3.3	3.1	3.4	2.6	2.6	2.2	1.7	1.4	1.5	1.3	1.4	+0.1
Region:														
Northeast	5.9	3.9	3.5	3.7	3.4	3.1	3.8	2.6	1.9	1.4	2.0	1.4	2.0	+0.6
Midwest	4.8	3.9	3.0	3.7	3.9	3.2	2.5	2.3	2.4	1.5	1.7	1.3	1.1	-0.2
South	3.6	3.4	3.7	3.1	3.6	2.7	2.2	2.0	1.8	2.4	1.6	1.8	1.7	-0.1
West	4.7	3.7	5.0	3.5	3.8	4.0	3.4	3.3	1.7	1.8	1.5	1.4	1.6	+0.2
Population Density:														
Large MSA	4.1	2.8	3.1	2.4	4.0	3.3	3.2	2.6	1.7	1.4	1.5	1.3	1.5	+0.3
Other MSA	4.5	3.8	3.7	3.8	3.5	3.0	2.7	2.4	2.0	1.9	1.6	1.6	1.5	-0.1
Non-MSA	5.2	4.7	4.7	3.9	3.4	3.5	2.8	2.6	2.1	2.7	2.1	1.7	1.8	+0.2
Parental Education: c														
1.0-2.0 (Low)	5.0	3.6	3.6	3.6	3.0	4.3	3.0	2.7	2.6	2.4	1.7	2.3	0.7	-1.6
2.5-3.0	4.8	3.8	3.6	4.1	3.5	3.4	3.4	3.0	1.5	2.2	0.7	1.1	2.0	+0.9
3.5-4.0	4.7	3.9	4.4	3.1	3.6	3.8	2.3	2.7	1.8	2.1	2.0	1.9	1.9	0.0
4.5-5.0	4.3	3.7	3.6	3.9	3.9	2.3	3.1	1.9	2.1	1.4	2.0	0.8	1.6	+0.9 s
5.5-6.0 (High)	3.9	3.4	3.4	1.9	3.2	2.0	2.8	2.2	2.1	1.5	1.8	1.9	1.2	-0.6
Race/Ethnicity (2-year average): d														
White	5.3	4.7	4.3	4.1	3.8	3.5	3.0	2.6	2.3	1.9	1.6	1.4	1.5	+0.2
African American	1.9	1.6	1.5	1.6	2.0	2.2	1.9	2.0	2.1	1.9	1.8	1.9	1.6	-0.2
Hispanic	5.7	4.3	3.3	3.0	3.6	4.5	4.1	3.7	2.8	2.0	2.1	1.8	1.5	-0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on four of five forms in 1976–1988; N is four fifths of N indicated in Table S3. Data based on three of six forms beginning in 1999; N is three sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>All data are unadjusted for underreporting of amyl and butyl nitrites, except where otherwise noted.

<sup>&</sup>lt;sup>b</sup>Adjusted for underreporting of amyl and butyl nitrites. See text for details.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 25 **HALLUCINOGENS:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Percer	ntage wh	o used ir	n last 12	months					
	<u>1991</u>	1992	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u> <sup>a</sup>	2002	2003	2004	2005
Approximate weighted N =		18,600	18,300	17,300		17,800		18,100	16,700				16,500	17,000	16,800
Total	1.9	2.5	2.6	2.7	3.6	4.1	3.7	3.4	2.9	2.8‡	3.4	2.6	2.6	2.2	2.4
Gender:															
Male	2.2	2.6	2.8	3.0	4.0	4.3	4.0	3.7	3.3	3.2‡	3.8	2.9	2.9	2.3	2.5
Female	1.6	2.3	2.3	2.4	3.3	3.7	3.2	2.9	2.4	2.5‡	2.9	2.2	2.3	2.1	2.2
College Plans:															
None or under 4 years	5.1	7.2	7.1	6.7	9.6	9.6	10.1	9.2	9.4	7.7‡	9.5	7.8	8.7	7.8	7.6
Complete 4 years	1.4	1.8	1.9	2.2	2.9	3.2	2.9	2.7	2.1	2.3‡	2.6	2.0	1.9	1.7	1.8
Region:															
Northeast	1.5	1.6	1.9	2.9	3.4	3.7	2.8	2.4	2.6	2.3‡	2.9	1.5	2.5	2.0	1.9
Midwest	1.6	2.4	1.7	2.2	3.8	3.9	3.8	3.5	3.4	3.5‡	2.7	2.7	2.6	1.9	2.2
South	1.9	2.7	2.8	2.4	3.3	3.9	3.4	3.7	2.9	2.7‡	4.0	2.9	2.6	2.4	2.9
West	2.8	3.2	4.2	3.9	4.2	5.1	4.8	3.5	2.4	2.7‡	3.3	2.9	2.7	2.6	2.3
Population Density:															
Large MSA	2.1	2.2	2.2	3.1	4.0	3.8	3.3	2.9	2.5	2.3‡	2.7	2.0	2.2	1.9	2.2
Other MSA	2.0	3.0	3.1	3.1	3.8	4.8	4.0	3.4	3.1	3.0‡	3.6	2.4	2.5	2.6	2.4
Non-MSA	1.5	2.0	1.8	1.6	3.0	3.2	3.5	3.8	2.8	3.2‡	3.6	3.5	3.3	2.1	2.7
Parental Education: b															
1.0-2.0 (Low)	3.9	3.7	3.5	3.1	5.1	4.8	5.0	5.0	4.8	5.4‡	5.9	4.4	4.3	4.8	3.4
2.5–3.0	2.2	2.3	2.7	2.8	3.8	4.7	3.9	3.4	3.5	3.2‡	3.9	3.2	3.2	2.5	3.3
3.5-4.0	1.6	2.5	2.8	2.8	4.1	4.1	3.8	3.7	2.8	2.8‡	3.7	2.6	2.6	2.1	3.0
4.5–5.0	1.6	2.0	2.3	2.8	3.2	4.0	3.4	3.0	2.1	2.1‡	2.4	2.1	2.0	2.0	1.8
5.5-6.0 (High)	1.4	2.4	2.0	2.5	3.2	3.5	3.5	3.1	2.5	3.1‡	2.3	1.7	1.9	1.7	1.1
Race/Ethnicity (2-year average): c															
White	_	2.2	2.6	2.8	3.6	4.5	4.5	3.9	3.2	3.1	2.9‡	2.7 <sup>d</sup>	2.8	2.5	2.4
African American	_	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7‡	0.7 <sup>d</sup>	0.9	1.2	1.3
Hispanic	_	3.8	4.1	4.0	4.0	4.1	4.2	4.6	4.5	4.0	3.4±	3.6 <sup>d</sup>	2.9	2.9	2.7

TABLE 25 (cont.) **HALLUCINOGENS:** Trends in **Annual** Prevalence of Use by Subgroups in **Grade 8** 

_	Percentage who used in last 12 months												0047 0040	
														2017-2018
	<u>2006</u>	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	2.1	1.9	2.1	1.9	2.2	2.2	1.6	1.6	1.3	1.3	1.2	1.1	1.4	+0.2
Gender:														
Male	2.1	2.1	2.2	2.0	2.5	2.6	1.7	1.7	1.5	1.3	1.3	1.1	1.5	+0.5
Female	2.0	1.8	2.0	1.8	2.0	1.7	1.5	1.6	1.0	1.2	1.1	1.1	1.1	0.0
College Plans:														
None or under 4 years	6.7	6.9	8.4	7.4	6.9	7.7	5.2	5.3	4.1	3.8	3.5	2.9	3.9	+1.0
Complete 4 years	1.6	1.5	1.6	1.4	1.8	1.8	1.3	1.4	1.0	1.1	0.9	0.9	1.0	+0.1
Region:														
Northeast	1.4	1.0	1.4	1.4	1.8	1.1	1.5	1.0	0.6	0.6	0.8	8.0	0.7	-0.1
Midwest	1.9	2.0	2.0	1.9	2.5	1.8	0.8	1.5	1.0	1.3	0.9	0.6	0.9	+0.3
South	2.3	1.7	2.3	1.8	1.9	2.0	2.0	1.8	1.3	1.4	1.5	1.2	1.3	+0.1
West	2.4	2.8	2.5	2.3	3.0	3.9	1.8	1.9	1.9	1.6	1.3	1.7	2.4	+0.7
Population Density:														
Large MSA	1.4	1.5	2.1	1.5	1.9	2.0	1.7	1.5	1.1	1.1	1.3	1.0	1.8	+0.8 s
Other MSA	2.4	2.0	2.3	2.1	2.6	2.6	1.8	1.7	1.4	1.6	1.1	1.3	1.2	0.0
Non-MSA	2.5	2.4	1.7	2.0	2.1	1.7	1.1	1.5	1.4	0.9	1.5	1.1	1.0	0.0
Parental Education: b														
1.0-2.0 (Low)	2.9	3.0	4.2	3.9	3.1	3.7	2.5	2.3	2.1	2.0	2.4	1.9	2.0	+0.1
2.5-3.0	2.6	2.0	2.4	1.8	2.8	3.2	1.9	1.8	1.4	1.1	1.6	1.4	1.8	+0.4
3.5-4.0	2.3	2.3	2.1	2.0	2.4	2.3	2.0	1.5	1.5	1.5	1.3	1.2	1.6	+0.3
4.5-5.0	1.9	1.6	1.7	1.6	2.0	1.6	1.0	1.4	0.7	1.0	0.6	0.8	1.0	+0.3
5.5-6.0 (High)	1.5	1.1	1.9	1.5	1.4	1.4	1.2	1.6	1.3	0.8	0.8	0.8	0.8	0.0
Race/Ethnicity (2-year average): c														
White	2.5	2.2	2.1	2.1	2.1	2.1	1.6	1.3	1.2	1.0	1.0	1.0	1.1	0.0
African American	1.1	0.7	0.8	0.8	0.7	0.9	1.1	1.2	0.9	0.7	1.0	0.9	0.7	-0.2
Hispanic	1.8	2.1	2.5	2.4	2.7	3.1	2.8	2.1	1.8	1.5	1.7	1.5	1.5	0.0

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

aln 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner. <sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>°</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus

provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 26
HALLUCINOGENS: Trends in Annual Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 12 months															
Approximate weighted N =	<u>1991</u>	<u>1992</u> 14,800	1993 15,300	<u>1994</u> 15,800	<u>1995</u> 17,000	1996 15,600	1997 15,500	<u>1998</u> 15,000	1999 13,600	2000 14,300	2001 <sup>a</sup>	2002 14,300	2003 15,800	2004 16.400	2005 16,200	
Total	4.0	4.3	4.7	5.8	7.2	7.8	7.6	6.9	6.9	6.1‡	6.2	4.7	4.1	4.1	4.0	
Gender:																
Male	4.4	4.7	5.7	6.6	8.1	8.5	8.7	7.4	8.1	7.2‡	7.9	5.5	4.9	4.6	4.8	
Female	3.6	3.8	3.6	4.8	6.1	7.0	6.4	6.3	5.7	4.9‡	4.6	3.9	3.4	3.5	3.1	
College Plans:																
None or under 4 years	7.5	7.5	9.1	10.4	12.5	14.5	13.6	14.2	14.3	12.3‡	15.0	10.3	8.9	9.3	9.4	
Complete 4 years	3.3	3.6	3.7	4.8	6.2	6.6	6.5	5.6	5.7	5.1‡	4.8	3.9	3.3	3.3	3.2	
Region:																
Northeast	4.0	2.7	4.7	5.8	5.6	7.7	6.2	8.1	8.6	5.8‡	6.0	4.2	4.0	4.7	5.0	
Midwest	3.4	4.3	4.6	5.7	7.8	9.0	7.0	5.6	6.7	6.1‡	6.0	5.1	3.5	3.7	3.9	
South	3.6	3.9	3.6	5.1	7.3	7.5	8.3	7.6	6.5	5.7‡	5.3	4.0	3.9	3.6	3.5	
West	5.2	6.5	6.7	7.1	7.6	6.6	8.5	6.1	6.1	6.9‡	8.7	5.9	5.0	4.7	3.7	
Population Density:																
Large MSA	4.1	4.6	4.9	6.0	7.1	8.6	7.8	6.3	5.8	7.5‡	5.0	4.7	3.2	2.9	3.4	
Other MSA	4.8	4.4	4.9	6.4	8.0	8.2	7.9	7.6	7.8	5.8‡	6.6	4.9	4.4	5.0	4.3	
Non-MSA	2.5	3.7	4.1	4.4	5.5	6.0	6.7	6.3	6.5	5.1‡	6.8	4.4	4.6	3.9	4.2	
Parental Education: b																
1.0-2.0 (Low)	3.7	4.9	6.0	6.1	7.7	8.0	6.5	8.3	7.0	5.2‡	6.4	5.3	6.5	3.2	3.7	
2.5–3.0	4.3	4.2	4.5	5.5	7.6	8.5	7.3	8.2	8.1	5.8‡	6.7	5.2	4.7	4.8	4.5	
3.5-4.0	3.7	4.6	4.8	5.9	7.6	8.6	8.2	6.6	6.6	6.7‡	6.1	4.8	4.0	3.9	4.0	
4.5–5.0	4.1	3.8	4.5	5.5	6.6	6.9	8.2	6.1	6.6	6.3‡	6.0	4.0	3.5	3.7	4.0	
5.5-6.0 (High)	4.6	4.2	4.6	6.2	6.5	7.2	6.8	6.0	6.5	6.2‡	5.8	5.2	3.4	4.1	3.7	
Race/Ethnicity (2-year average): c																
White	_	4.9	5.1	5.6	7.1	8.6	8.9	8.4	8.2	7.6	6.6‡	5.6 <sup>d</sup>	5.3	4.9	4.7	
African American	_	0.2	0.6	1.1	1.2	0.9	1.0	1.1	1.0	1.0	1.3‡	1.4 <sup>d</sup>	1.0	0.8	1.2	
Hispanic	_	3.6	4.5	5.7	6.3	6.6	7.3	7.3	6.4	5.2	4.4±	4.5 <sup>d</sup>	3.9	3.8	4.0	

TABLE 26 (cont.) **HALLUCINOGENS:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

	Percentage who used in last 12 months														
Approximate weighted N =	2006 16 200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	2017-2018 <u>change</u>	
Total	4.1	4.4	3.9	4.1	4.2	4.1	3.5	3.4	3.3	3.1	2.9	2.8	2.7	-0.1	
Gender:															
Male	4.5	5.4	4.7	5.0	5.2	4.9	4.6	4.4	3.3	3.4	3.5	3.4	3.2	-0.1	
Female	3.5	3.4	3.1	3.1	3.0	3.2	2.5	2.4	3.4	2.5	2.3	2.2	2.1	-0.1	
College Plans:															
None or under 4 years	10.0	10.0	10.4	10.5	11.0	10.3	10.5	6.5	8.3	7.0	6.8	7.5	6.0	-1.5	
Complete 4 years	3.3	3.6	3.1	3.4	3.4	3.4	2.9	3.1	2.8	2.6	2.4	2.2	2.2	0.0	
Region:															
Northeast	4.0	4.4	3.5	3.4	4.0	4.0	3.0	2.7	3.4	3.2	2.1	1.6	2.1	+0.5	
Midwest	4.1	4.7	3.8	4.4	3.5	3.5	3.2	2.9	3.2	2.2	2.6	3.0	2.6	-0.4	
South	3.5	3.6	4.1	3.8	4.2	4.0	3.4	3.4	3.3	3.5	2.7	2.2	2.9	+0.7	
West	5.1	5.1	4.2	4.9	5.1	5.0	4.5	4.4	3.3	3.2	4.2	4.4	3.0	-1.4	
Population Density:															
Large MSA	4.1	3.9	3.9	4.0	3.9	4.0	3.4	2.6	2.8	2.7	2.9	2.8	2.6	-0.2	
Other MSA	4.1	4.7	4.2	4.3	4.3	4.4	3.7	3.9	3.7	3.4	3.0	2.8	2.8	0.0	
Non-MSA	3.8	4.2	3.4	3.8	4.1	3.7	3.4	3.2	3.4	2.8	2.7	2.8	2.6	-0.2	
Parental Education: b															
1.0-2.0 (Low)	5.3	5.4	5.0	5.8	5.3	5.7	4.9	4.4	3.0	3.9	2.9	2.9	3.5	+0.6	
2.5-3.0	4.5	4.6	4.1	3.9	5.6	4.6	4.5	4.0	3.5	4.1	3.8	3.8	3.0	-0.8	
3.5-4.0	3.8	4.5	4.2	4.3	4.2	4.1	3.3	3.9	4.3	3.7	3.0	3.3	2.7	-0.6	
4.5-5.0	3.9	4.2	3.3	3.6	3.5	3.5	3.2	2.9	2.7	2.5	2.5	2.4	2.3	0.0	
5.5-6.0 (High)	4.0	3.9	3.3	4.5	3.3	3.5	2.8	3.0	2.7	2.0	2.6	2.0	2.8	+0.8	
Race/Ethnicity (2-year average): c															
White	4.7	4.9	4.8	4.5	4.5	4.4	4.1	3.6	3.5	3.3	3.2	3.2	3.0	-0.2	
African American	1.4	1.0	1.1	1.4	1.6	1.4	1.4	1.5	1.5	2.0	1.6	1.0	8.0	-0.2	
Hispanic	3.5	2.8	3.6	4.3	4.3	4.5	4.2	3.5	3.1	3.0	3.0	3.0	3.0	+0.1	

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>&</sup>lt;sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 27

HALLUCINOGENS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Percentage who used in last 12 months

	T Growings wild used in last 12 months															
Approximate weighted N	<u>1975</u> 9,400	<u>1976</u> 15,400	<u>1977</u> 17.100	<u>1978</u> 17.800	<u>1979</u> 15,500	1980 15,900	<u>1981</u> 17,500	1982 17,700	1983 16,300	<u>1984</u> 15,900	<u>1985</u> 16.000	<u>1986</u> 15,200	1987 16,300	1988 16,300	1989 16,700	<u>1990</u>
Approximate weighted N = Total	9,400	9.4	8.8	9.6	9.9	9.3	9.0	8.1	7.3	6.5	6.3	6.0	6.4	5.5	5.6	5.9
Adjusted <sup>b</sup>	- 11.2	J.4 	0.0	9.0	11.8	10.4	10.1	9.0	8.3	7.3	7.6	7.6	6.7	5.8	6.2	6.0
Gender:					11.0	10.4	10.1	3.0	0.0	7.5	7.0	7.0	0.7	5.0	0.2	0.0
Male	13.7	11.6	10.8	11.6	11.8	11.7	10.9	9.6	8.6	7.9	8.1	7.2	7.5	7.2	7.4	7.7
Female	9.0	6.9	6.5	7.3	7.6	6.7	6.8	6.1	5.5	4.7	4.4	4.7	5.2	3.7	3.6	3.8
College Plans:	0.0	0.0	0.0			0	0.0	0	0.0				0.2	0	0.0	0.0
None or under 4 years	_	11.2	10.6	11.0	11.3	11.2	10.7	9.5	8.9	8.3	7.7	7.4	7.9	6.4	7.1	6.6
Complete 4 years	_	6.9	6.4	7.3	7.5	7.1	7.4	6.2	5.4	4.7	5.0	4.7	5.4	4.7	4.8	5.3
Region:																
Northeast	13.2	10.9	10.6	13.0	12.9	12.2	12.9	11.4	8.7	11.3	9.9	7.9	7.5	5.8	5.6	6.6
Midwest	13.0	10.3	9.7	10.7	11.1	11.3	10.3	9.1	8.9	6.0	6.8	6.6	6.9	5.3	6.6	5.7
South	8.5	7.4	6.8	6.3	5.7	5.4	4.1	4.6	5.2	3.9	3.2	3.3	4.8	5.2	4.9	5.0
West	10.2	9.3	8.2	9.6	11.0	9.2	10.4	7.8	6.3	7.0	6.3	7.2	7.4	6.0	5.5	6.9
Population Density:																
Large MSA	13.9	11.1	9.9	11.9	12.3	11.6	12.0	10.9	9.2	8.8	8.3	7.6	7.9	6.5	5.4	5.7
Other MSA	12.1	9.8	9.1	9.3	10.5	9.8	9.0	7.6	7.6	6.3	6.1	5.9	6.3	6.0	5.9	6.6
Non-MSA	8.5	7.7	7.5	8.3	7.1	7.1	6.8	6.5	5.3	5.0	5.0	4.9	5.3	3.5	5.0	4.5
Parental Education: c																
1.0-2.0 (Low)	8.9	7.4	6.8	7.7	7.1	8.0	6.7	6.5	6.5	5.4	4.8	5.4	5.8	4.9	4.2	3.8
2.5–3.0	10.2	10.0	9.1	9.6	9.6	9.5	8.9	8.0	6.8	6.7	6.4	6.0	6.2	4.2	4.9	4.6
3.5-4.0	10.9	9.8	9.2	9.7	9.7	9.2	9.2	8.6	7.7	6.3	7.2	6.3	6.0	4.8	5.6	6.5
4.5–5.0	11.1	10.1	8.8	10.2	10.9	9.1	9.4	7.8	7.0	5.9	6.2	5.5	6.8	6.7	6.6	6.8
5.5–6.0 (High)	8.9	9.4	9.5	10.2	11.7	9.9	10.6	9.0	7.0	7.6	4.3	5.9	7.2	7.2	7.0	8.2
Race/Ethnicity (2-year average): d																
White	_	_	9.8	9.9	10.5	10.3	10.0	9.3	8.3	7.5	7.0	6.7	6.8	6.8	6.4	6.7
African American	_	_	2.4	2.3	2.0	1.9	1.9	1.8	2.2	1.7	1.2	1.6	1.5	1.0	0.9	0.8
Hispanic	_	_	7.9	7.2	7.0	7.1	7.0	7.7	6.6	5.2	5.7	5.7	5.0	4.0	3.2	3.3

TABLE 27 (cont.)

HALLUCINOGENS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

	Percentage who used in last 12 months  1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 <sup>6</sup> 2002 2003 2004 2005														
Approximate weighted N =	1991 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	1995 15,400	1996 14,300	1997 15,400	1998 15,200	1999 13,600	2000 12,800	2001 <sup>e</sup> 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	5.8	5.9	7.4	7.6	9.3	10.1	9.8	9.0	9.4	8.1‡	9.1	6.6	5.9	6.2	5.5
Adjusted <sup>b</sup>	6.1	6.2	7.8	7.8	9.7	10.7	10.0	9.2	9.8	8.7‡	9.7	7.2	6.5	6.4	5.9
Gender:															
Male	7.5	7.1	8.9	9.2	11.9	12.4	12.0	11.0	11.4	9.6‡	11.1	8.4	7.8	8.4	7.4
Female	3.9	4.7	5.6	5.8	6.3	7.3	7.4	6.8	7.4	6.3‡	6.8	4.7	3.8	3.8	3.4
College Plans:															
None or under 4 years	7.0	7.8	8.1	8.4	11.9	12.1	11.3	12.0	10.5	10.3‡	10.4	9.8	8.2	7.7	7.8
Complete 4 years	5.3	5.1	6.9	7.0	8.2	9.0	9.0	7.8	8.7	7.0‡	8.0	5.5	5.0	5.4	4.7
Region:															
Northeast	7.0	7.1	9.0	9.0	10.1	13.3	13.9	10.7	9.8	9.3‡	9.8	9.1	7.8	7.0	5.5
Midwest	6.5	5.9	6.8	8.1	9.2	8.8	7.6	8.4	9.8	7.0‡	11.4	6.4	5.4	5.3	6.7
South	3.7	4.7	5.9	6.7	8.8	8.9	9.2	8.5	8.6	6.9‡	5.8	5.6	4.9	5.7	5.2
West	7.3	7.3	9.2	7.1	9.6	10.5	9.5	9.1	10.0	10.5‡	10.8	6.2	6.3	7.4	4.4
Population Density:															
Large MSA	5.1	6.2	7.3	8.1	11.0	10.5	8.8	8.7	8.4	8.9‡	11.5	6.8	4.4	5.6	5.5
Other MSA	7.7	6.0	8.1	8.6	9.5	11.4	11.2	9.9	10.4	8.3‡	8.7	7.2	7.2	7.2	5.9
Non-MSA	3.3	5.5	6.3	5.1	7.0	7.4	8.3	7.4	8.8	7.0‡	7.3	5.2	5.5	4.8	4.5
Parental Education: c															
1.0–2.0 (Low)	4.9	3.6	4.9	5.0	7.2	7.4	7.3	7.9	9.0	7.0‡	6.3	5.1	5.3	4.9	3.0
2.5–3.0	4.9	5.6	5.9	7.0	8.7	8.8	8.5	8.8	8.6	7.4‡	9.1	6.6	4.9	5.6	5.7
3.5-4.0	6.2	6.0	7.5	8.0	9.5	10.3	9.9	9.5	10.6	8.2‡	9.4	7.1	6.4	6.6	5.4
4.5–5.0	6.1	6.2	8.9	7.7	9.6	10.5	10.4	8.6	9.3	7.7‡	8.6	6.7	6.5	6.4	5.7
5.5-6.0 (High)	7.3	7.4	8.9	9.0	9.5	11.4	11.6	9.4	8.4	9.6‡	8.8	5.9	5.3	6.1	5.7
Race/Ethnicity (2-year average): d															
White	6.8	6.9	7.9	8.6	9.5	10.8	11.6	11.3	10.7	9.9	9.0‡	8.4 <sup>f</sup>	7.2	7.0	6.7
African American	0.6	0.7	8.0	1.2	1.2	1.7	1.9	1.4	1.2	1.6	1.4‡	1.2 <sup>f</sup>	1.3	1.2	1.3
Hispanic	4.4	4.6	5.3	5.8	7.1	8.3	7.3	6.8	7.9	9.6	7.8‡	6.0 <sup>f</sup>	4.6	4.1	3.9

TABLE 27 (cont.)

HALLUCINOGENS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

		Percentage who used in last 12 months													2017-2018
	Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 <sup>9</sup> 12,400	2015 <sup>9</sup> 12,900	2016 <sup>9</sup>	2017 <sup>9</sup> 12,600	2018 <sup>9</sup> 13,300	2017-2018 <u>change</u>
Total		4.9	5.4	5.9	4.7	5.5	5.2	4.8	4.5	4.0	4.2	4.3	4.4	4.3	-0.2
Adjuste	ed <sup>b</sup>	5.3	5.8	6.1	5.2	6.0	5.8	5.0	4.9	_	_	_	_	_	_
Gender:															
Male		6.2	7.5	7.8	6.2	7.9	7.0	6.0	5.9	5.5	5.2	5.7	5.9	5.8	0.0
Female	•	3.6	3.3	3.9	3.1	2.9	3.3	3.1	2.8	2.6	2.9	2.8	3.0	2.3	-0.7
College	Plans:														
None o	r under 4 years	7.0	8.3	8.4	5.6	8.4	7.7	5.8	6.0	5.8	6.1	4.7	6.1	6.7	+0.6
Comple	ete 4 years	4.4	4.6	5.2	4.3	4.8	4.6	4.5	4.0	3.5	3.6	4.0	3.7	3.4	-0.4
Region:															
Northe	ast	7.1	6.7	8.0	4.7	6.2	5.7	5.2	4.5	4.4	3.6	5.0	4.2	4.8	+0.6
Midwes	st	4.9	5.3	4.5	5.9	5.4	5.2	4.5	4.9	4.0	3.8	4.9	3.6	4.5	+0.9
South		4.1	4.2	5.7	3.9	4.5	3.9	4.2	3.9	4.0	3.9	3.1	3.9	3.4	-0.4
West		4.3	6.5	6.2	4.6	6.6	6.7	5.5	4.8	3.6	5.3	5.5	6.2	5.1	-1.1
Populati	on Density:														
Large I	MSA	6.0	6.2	6.9	5.1	5.6	4.9	5.4	4.5	4.2	4.4	4.3	5.2	3.8	-1.4
Other N	MSA	4.5	5.1	5.7	4.7	5.9	5.6	5.0	5.0	4.1	4.5	4.8	4.4	4.4	+0.1
Non-M		4.1	4.8	5.3	4.2	4.3	4.4	3.2	3.1	3.3	2.7	3.4	3.3	4.8	+1.5
Parental	Education: c														
1.0-2.0	(Low)	4.9	3.9	4.4	3.6	3.7	4.9	3.3	4.4	3.0	4.8	4.0	4.1	4.0	-0.2
2.5–3.0	)	5.1	4.9	5.0	4.5	5.0	4.3	5.1	4.7	4.1	4.1	4.0	4.6	4.4	-0.2
3.5–4.0	)	5.1	5.5	5.5	4.6	6.2	5.4	4.8	4.6	4.4	4.3	4.5	4.7	4.3	-0.4
4.5–5.0	)	4.6	5.4	6.7	5.3	5.5	4.9	5.0	3.9	3.8	3.7	4.5	4.0	3.6	-0.5
5.5–6.0		4.6	6.7	7.2	4.6	5.4	5.7	4.5	4.7	4.1	4.1	4.0	4.5	4.4	-0.1
	hnicity (2-year average): d														
White		6.0	6.2	6.9	6.3	6.1	6.4	6.0	5.2	4.6	4.2	4.3	4.8	4.8	-0.1
African	American	1.5	1.4	1.4	1.2	1.3	1.7	1.6	1.5	1.9	2.0	1.7	1.9	1.8	-0.1
Hispan	ic	3.8	3.9	3.5	3.3	3.3	3.0	2.9	3.5	3.5	4.0	4.7	3.9	3.4	-0.5

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>All data are unadjusted for the underreporting of PCP, unless otherwise indicated.

<sup>&</sup>lt;sup>b</sup>Adjusted for the underreporting of PCP. See text for details.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>e</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner. Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

<sup>&</sup>lt;sup>9</sup>In 2014 questions on use of LSD and hallucinogens other than LSD, the two components of hallucinogen use, were each dropped from one of six forms. Beginning in 2014 data are based on five of six forms; N is five sixths of N indicated.

TABLE 28
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

						Percen	tage who	o used ir	last 12	months					
	<u>1991</u>	1992	1993	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	1.7	2.1	2.3	2.4	3.2	3.5	3.2	2.8	2.4	2.4	2.2	1.5	1.3	1.1	1.2
Gender:															
Male	2.0	2.1	2.5	2.6	3.4	3.7	3.5	3.2	2.7	2.6	2.3	1.7	1.4	1.1	1.2
Female	1.3	2.0	2.1	2.1	2.9	3.2	2.8	2.4	2.0	2.2	2.1	1.3	1.1	1.1	1.1
College Plans:															
None or under 4 years	4.5	6.4	6.4	6.2	8.5	8.2	9.3	7.8	8.2	6.7	5.8	5.7	4.3	4.7	4.1
Complete 4 years	1.2	1.5	1.6	1.8	2.5	2.7	2.5	2.2	1.7	2.0	1.8	1.1	0.9	0.7	8.0
Region:															
Northeast	1.3	1.4	1.8	2.6	2.9	2.9	2.3	2.1	2.2	1.9	1.9	0.9	1.4	1.0	0.9
Midwest	1.4	1.8	1.4	1.7	3.5	3.4	3.3	2.5	2.7	3.0	1.7	1.8	1.2	0.9	0.9
South	1.8	2.4	2.4	2.1	2.8	3.4	3.0	3.2	2.5	2.4	2.7	1.8	1.3	1.2	1.5
West	2.2	2.9	3.7	3.3	3.8	4.3	4.3	3.2	1.9	2.3	2.0	1.2	1.2	1.2	1.1
Population Density:															
Large MSA	1.9	2.0	2.0	2.7	3.6	3.2	2.9	2.6	2.2	2.0	1.8	1.3	1.3	1.1	1.0
Other MSA	1.7	2.5	2.8	2.8	3.3	4.1	3.6	2.9	2.7	2.6	2.3	1.5	1.2	1.3	1.1
Non-MSA	1.3	1.6	1.4	1.3	2.4	2.6	2.8	2.9	1.9	2.8	2.4	1.9	1.4	0.7	1.4
Parental Education: a															
1.0-2.0 (Low)	3.5	3.1	3.1	2.8	4.6	4.4	4.7	4.4	3.7	4.9	4.1	3.4	2.3	2.8	1.7
2.5-3.0	1.8	2.1	2.3	2.6	3.1	4.0	3.2	2.8	2.7	2.9	2.6	2.0	1.4	1.2	1.7
3.5-4.0	1.4	2.0	2.4	2.4	3.6	3.5	3.4	3.1	2.4	2.2	2.4	1.3	1.3	1.0	1.5
4.5–5.0	1.4	1.5	2.1	2.1	2.6	3.4	2.9	2.5	1.9	1.8	1.5	1.2	1.1	1.0	0.6
5.5-6.0 (High)	1.3	2.0	2.0	2.1	2.9	3.0	2.9	2.4	1.9	2.3	1.3	0.8	0.8	0.6	0.4
Race/Ethnicity (2-year average): b															
White	_	1.9	2.3	2.5	3.1	3.9	3.9	3.2	2.6	2.6	2.6	2.0	1.5	1.1	1.0
African American	_	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.6	0.8	0.9
Hispanic	_	3.3	3.7	3.6	3.3	3.5	3.9	4.2	3.9	3.5	3.2	2.4	1.7	1.8	1.7

TABLE 28 (cont.)
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

					Percer	tage wh	o used ir	last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300		change
Total	0.9	1.1	1.3	1.1	1.2	1.1	0.8	1.0	0.7	0.9	0.8	0.9	0.9	+0.1
Gender:	0.0		1.0		1.2		0.0	1.0	0.1	0.0	0.0	0.0	0.0	10.1
Male	0.8	1.1	1.4	1.1	1.2	1.4	0.8	1.0	0.8	0.8	0.9	0.9	1.0	+0.1
Female	1.0	1.0	1.2	1.1	1.1	0.8	0.8	1.0	0.6	0.9	0.6	0.8	0.8	0.0
College Plans:														
None or under 4 years	3.4	3.9	5.2	4.9	3.7	3.9	3.3	3.8	2.5	2.5	2.3	2.4	2.8	+0.5
Complete 4 years	0.7	0.8	1.0	0.8	0.9	0.9	0.6	0.8	0.6	0.7	0.6	0.7	0.6	-0.1
Region:														
Northeast	0.5	0.6	0.8	0.8	1.0	0.6	0.7	0.6	0.3	0.3	0.6	0.5	0.5	0.0
Midwest	0.7	1.2	1.3	1.1	1.4	0.9	0.3	0.9	0.6	1.0	0.6	0.6	0.4	-0.1
South	1.1	1.0	1.4	1.0	1.0	1.0	1.1	1.2	0.8	0.9	1.1	0.9	0.8	0.0
West	1.0	1.4	1.4	1.6	1.4	2.1	0.9	1.1	1.0	1.0	0.6	1.4	1.8	+0.4
Population Density:														
Large MSA	0.6	0.7	1.4	1.0	1.0	1.0	0.9	1.0	0.7	0.8	1.1	8.0	1.3	+0.5
Other MSA	1.1	1.2	1.3	1.2	1.4	1.3	0.8	1.1	0.7	1.1	0.6	1.0	0.9	-0.1
Non-MSA	1.0	1.3	1.0	1.1	1.0	0.9	0.6	0.8	0.7	0.5	0.9	0.7	0.5	-0.3
Parental Education: a														
1.0-2.0 (Low)	1.8	1.8	2.4	2.6	1.6	1.7	1.6	1.3	1.4	1.5	1.8	1.5	1.9	+0.5
2.5-3.0	1.0	1.1	1.6	1.1	1.1	1.7	1.1	1.0	0.8	0.7	0.9	1.2	1.3	+0.1
3.5-4.0	1.0	1.0	1.1	1.0	1.4	1.2	0.7	8.0	1.0	1.1	8.0	0.9	1.0	+0.1
4.5–5.0	0.7	1.0	1.0	8.0	1.0	0.8	0.4	1.0	0.4	0.7	0.4	0.6	0.5	-0.1
5.5-6.0 (High)	0.7	0.6	1.3	0.9	0.8	0.8	0.7	1.1	0.6	0.6	0.5	0.5	0.5	0.0
Race/Ethnicity (2-year average): b														
White	1.0	1.0	1.1	1.1	1.1	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	+0.1
African American	0.6	0.3	0.6	0.7	0.5	0.6	0.6	0.8	0.6	0.4	0.7	0.6	0.5	-0.1
Hispanic	1.0	1.3	1.6	1.5	1.6	1.8	1.4	1.2	1.2	1.0	1.2	1.1	1.2	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 29
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

						Percer	tage wh	o used ir	last 12	months					
Approximate weighted N =	<u>1991</u> 14.800	<u>1992</u> 14,800	1993 15.300	<u>1994</u> 15,800	1995 17.000	1996 15.600	<u>1997</u> 15.500	1998 15.000	1999 13.600	2000 14.300	2001 14.000	2002 14.300	2003 15.800	2004 16.400	2005 16,200
Total	3.7	4.0	4.2	5.2	6.5	6.9	6.7	5.9	6.0	5.1	4.1	2.6	1.7	1.6	1.5
Gender:															
Male	3.9	4.3	5.1	5.9	7.4	7.6	7.6	6.3	7.0	5.9	5.1	3.1	1.9	1.8	1.9
Female	3.4	3.6	3.2	4.3	5.5	6.2	5.8	5.4	5.1	4.3	3.1	2.0	1.6	1.4	1.0
College Plans:															
None or under 4 years	6.8	7.0	8.4	9.4	11.1	13.1	12.8	12.4	13.1	11.1	9.9	6.0	4.4	4.5	4.1
Complete 4 years	3.0	3.4	3.3	4.2	5.6	5.8	5.7	4.7	4.9	4.1	3.2	2.0	1.3	1.2	1.1
Region:															
Northeast	3.6	2.6	3.8	5.1	4.7	6.4	5.2	7.1	7.5	4.1	4.0	2.2	1.8	1.7	2.3
Midwest	3.2	4.1	4.4	5.2	7.3	8.3	6.0	4.5	6.0	5.4	4.3	2.8	1.7	1.5	1.2
South	3.3	3.7	3.2	4.6	6.8	6.8	7.9	6.5	5.8	5.0	3.5	2.3	1.7	1.4	1.4
West	4.8	5.9	6.1	6.3	6.5	5.7	7.4	5.2	5.1	5.9	5.3	3.2	1.7	1.9	1.0
Population Density:															
Large MSA	3.8	4.4	4.4	5.4	6.6	7.6	7.0	5.4	4.9	6.4	3.8	2.6	1.3	1.1	1.2
Other MSA	4.4	4.1	4.4	5.9	7.1	7.4	7.0	6.6	6.7	4.8	4.1	2.7	1.7	1.9	1.5
Non-MSA	2.3	3.5	3.7	3.7	5.0	5.2	6.0	5.0	5.9	4.4	4.6	2.3	2.3	1.5	1.8
Parental Education: a															
1.0–2.0 (Low)	3.1	4.4	5.5	5.5	6.9	7.6	5.9	7.9	6.3	4.9	3.9	2.7	3.7	1.3	1.8
2.5–3.0	4.0	4.2	4.2	5.1	6.9	7.6	6.6	7.0	7.3	5.1	4.8	2.9	2.0	1.7	1.7
3.5–4.0	3.4	4.1	4.2	5.3	6.9	7.9	7.4	5.6	5.8	5.6	4.3	2.8	1.7	1.4	1.6
4.5–5.0	3.8	3.6	3.9	4.8	6.0	6.0	7.0	5.0	5.7	5.0	3.8	2.0	1.2	1.4	1.2
5.5–6.0 (High)	4.2	3.9	3.9	5.4	5.9	5.8	6.0	4.6	5.3	5.0	3.5	2.4	1.2	1.6	1.4
Race/Ethnicity (2-year average): b															
White	_	4.6	4.6	5.0	6.4	7.7	7.9	7.3	7.0	6.5	5.2	3.8	2.4	1.9	1.7
African American	_	0.2	0.5	0.9	1.0	8.0	0.9	1.0	0.9	0.9	0.9	0.6	0.4	0.4	0.6
Hispanic	_	3.2	4.1	5.0	5.7	6.1	6.7	6.6	5.6	4.6	3.7	2.9	2.4	1.7	1.6

TABLE 29 (cont.)
LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percen	tage wh	o used ir	last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		16,100			15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500		change
Total	1.7	1.9	1.8	1.9	1.9	1.8	1.7	1.7	1.9	2.0	2.1	2.1	2.0	-0.1
Gender:														
Male	2.1	2.3	2.2	2.3	2.4	2.2	2.3	2.3	2.1	2.2	2.6	2.5	2.4	-0.1
Female	1.3	1.5	1.3	1.3	1.3	1.3	1.1	1.0	1.8	1.5	1.6	1.6	1.5	-0.1
College Plans:														
None or under 4 years	5.1	4.3	5.1	5.9	5.1	4.2	6.3	3.5	5.2	4.2	4.7	5.3	4.4	-0.8
Complete 4 years	1.2	1.5	1.3	1.4	1.5	1.6	1.3	1.5	1.5	1.7	1.8	1.7	1.6	-0.1
Region:														
Northeast	1.7	1.8	1.5	1.6	2.0	1.8	1.4	1.7	1.7	2.1	1.6	1.1	1.7	+0.6
Midwest	1.6	2.2	2.0	2.3	1.4	1.7	1.6	1.5	2.0	1.4	2.0	2.6	1.9	-0.7
South	1.7	1.6	1.8	1.6	2.1	2.1	1.7	1.5	2.2	2.4	1.9	2.0	2.0	+0.1
West	1.8	1.9	1.7	2.0	2.0	1.8	2.1	1.9	1.5	1.6	3.0	2.5	2.1	-0.4
Population Density:														
Large MSA	1.6	1.6	1.5	1.7	1.7	1.8	1.8	1.3	1.7	1.7	2.3	2.1	1.8	-0.3
Other MSA	1.7	2.1	1.9	2.2	1.9	1.8	1.7	2.2	2.1	2.4	2.1	2.1	2.2	0.0
Non-MSA	1.8	1.7	1.7	1.4	2.1	1.9	1.8	0.9	1.6	1.4	1.9	1.9	1.7	-0.2
Parental Education: a														
1.0-2.0 (Low)	2.5	2.9	2.2	2.5	2.4	3.0	2.0	2.2	1.7	2.5	2.4	2.0	2.4	+0.3
2.5–3.0	2.1	2.0	1.6	1.9	2.5	1.8	2.6	1.8	1.8	2.0	2.9	2.7	2.1	-0.6
3.5-4.0	1.6	1.8	1.9	2.0	1.8	1.8	1.4	1.7	2.3	2.4	2.1	2.6	2.0	-0.6
4.5–5.0	1.3	1.7	1.5	1.5	1.6	1.7	1.6	1.5	1.6	1.5	1.9	1.7	1.8	+0.1
5.5-6.0 (High)	1.3	1.7	1.9	2.2	1.9	1.6	1.3	1.7	1.6	1.6	1.8	1.6	2.0	+0.5
Race/Ethnicity (2-year average): b														
White	1.8	2.0	2.0	1.9	2.0	2.0	1.9	1.9	2.0	2.1	2.2	2.3	2.2	-0.1
African American	0.7	0.6	0.7	0.9	1.1	1.0	8.0	8.0	1.1	1.2	8.0	0.9	0.7	-0.2
Hispanic	1.6	1.4	1.8	2.0	1.7	1.9	1.9	1.5	1.4	1.6	2.2	2.2	2.3	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 30
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

Percentage who used in last 12 months 1976 1980 1990 1977 1978 1979 1983 1984 1985 1986 1987 1988 1989 1982 9,400 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 15,200 Approximate weighted N = 7.2 6.5 Total 6.4 5.5 6.3 6.6 6.5 6.1 5.4 4.7 4.4 4.5 5.2 4.8 4.9 5.4 Gender: Male 9.6 7.9 7.1 7.8 8.0 8.1 8.0 7.4 6.7 5.9 5.5 6.4 6.5 6.5 7.1 Female 5.6 4.6 4.7 3.1 2.8 3.4 3.6 3.9 4.5 4.8 4.8 4.3 3.8 3.9 3.0 3.2 College Plans: None or under 4 years 7.5 7.2 8.0 8.2 8.0 6.1 5.6 5.9 5.7 6.5 6.2 6.7 7.5 6.9 6.6 Complete 4 years 4.7 4.0 4.6 4.5 4.7 5.0 4.3 3.8 3.1 3.4 3.3 4.3 4.1 4.2 4.8 Region: Northeast 8.5 8.0 7.2 8.0 7.9 6.8 9.0 8.0 5.6 7.0 5.4 5.1 5.3 4.7 5.1 5.9 Midwest 8.7 7.0 7.9 7.9 8.5 7.8 5.3 5.3 4.7 6.0 5.3 6.5 7.3 7.0 4.4 5.7 South 5.4 4.7 3.7 3.7 3.4 4.3 3.4 3.9 4.4 3.5 2.8 2.6 4.2 4.7 4.2 4.7 West 7.6 5.9 5.8 6.5 6.3 4.8 4.2 4.5 4.6 5.9 6.2 5.2 6.4 5.0 8.3 4.4 Population Density: Large MSA 5.2 9.4 7.9 6.4 7.2 7.6 7.3 8.0 7.3 5.7 4.7 4.1 4.4 5.6 5.2 4.6 Other MSA 6.0 5.6 7.4 6.8 7.3 6.8 6.9 6.3 4.9 4.8 4.9 5.3 6.1 5.6 6.1 5.4 Non-MSA 4.9 3.1 5.7 4.8 4.8 5.8 5.6 4.9 4.8 4.4 4.2 4.1 4.0 4.4 4.3 4.2 Parental Education: a 1.0-2.0 (Low) 6.1 4.8 4.5 5.0 4.5 5.2 4.8 5.0 4.9 4.1 3.0 3.9 4.4 4.1 3.6 3.4 2.5-3.0 6.5 6.8 5.8 6.1 6.3 6.8 6.5 6.1 5.1 4.8 4.5 4.6 4.9 3.8 4.3 4.4 3.5-4.0 6.4 6.7 5.6 6.1 6.7 6.7 6.7 6.4 5.7 4.3 4.7 4.6 4.9 4.2 5.1 6.0 4.5-5.0 7.0 6.4 5.3 6.7 7.5 5.7 6.4 5.7 5.2 4.3 4.8 4.1 5.8 6.2 5.9 6.2

5.5-6.0 (High)

African American

White

Hispanic

Race/Ethnicity (2-year average): b

6.5

6.4

6.1

6.3

1.3

6.1

7.0

6.3

1.3

5.0

7.4

6.8

1.2

4.9

7.2

7.0

1.1

5.2

7.7

7.2

1.0

4.5

6.0

6.9

0.9

5.2

4.8

6.2

0.9

5.0

5.0

5.5

0.7

4.1

3.8

5.0

0.7

3.9

4.7

4.9

1.0

3.9

6.1

5.4

8.0

4.0

6.2

5.8

0.6

3.1

5.5

5.7

0.7

2.3

7.4

6.1

0.6

2.7

TABLE 30 (cont.)
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

Percentage who used in last 12 months 1991 1992 1994 2004 2005 1993 1995 1996 1999 2000 2001 2002 2003 1998 Approximate weighted N = 15,00015,800 16,300 15,400 15,400 14,300 15,400 15,200 13,600 12,800 12,800 12,900 14,600 14,600 14,700 5.2 8.4 3.5 2.2 Total 5.6 6.8 6.9 8.4 8.8 7.6 8.1 6.6 6.6 1.9 1.8 Gender: Male 6.8 6.7 8.4 8.4 10.7 10.9 10.3 9.3 10.0 7.6 7.9 4.4 2.5 3.1 2.7 Female 3.4 4.4 5.8 6.5 6.2 6.1 5.0 2.3 1.2 5.1 5.3 5.7 5.3 1.2 0.9 College Plans: None or under 4 years 6.4 7.6 7.7 11.2 10.3 10.9 8.7 5.7 3.0 3.2 3.4 7.5 11.4 9.4 8.2 Complete 4 years 4.7 4.8 6.4 6.3 7.3 7.7 7.4 6.3 7.3 5.6 5.7 2.7 1.4 1.8 1.3 Region: Northeast 6.1 6.6 8.6 8.2 8.8 11.9 11.8 8.2 7.8 7.1 6.7 5.4 2.4 2.3 1.7 Midwest 5.9 5.5 7.3 8.3 7.7 7.0 7.6 9.1 5.9 8.6 3.7 1.8 1.8 2.1 6.3 South 3.4 4.4 5.5 6.3 8.1 7.9 8.1 7.4 7.7 6.0 4.7 3.1 1.9 2.6 1.8 West 6.5 7.0 8.5 6.2 8.5 8.8 6.9 7.1 7.7 7.9 6.6 2.1 1.4 2.3 1.6 Population Density: Large MSA 4.3 5.7 6.7 7.3 9.7 9.0 7.7 7.2 6.8 6.7 7.7 3.3 1.5 1.9 1.8 Other MSA 9.3 7.0 5.8 7.6 7.9 8.7 10.0 9.2 6.9 6.4 4.0 2.2 2.6 1.9 8.4 Non-MSA 3.0 5.1 7.3 2.7 1.7 5.6 4.6 6.5 6.5 6.1 7.4 5.9 5.6 1.9 1.7 Parental Education: a 1.0-2.0 (Low) 4.3 3.3 4.6 4.4 6.6 6.7 6.8 6.8 8.6 5.6 5.4 2.4 1.5 3.2 1.7 2.5-3.0 5.2 4.4 5.6 6.5 8.1 8.2 7.3 7.8 7.6 6.4 6.7 3.4 1.9 2.4 1.9 3.5-4.0 5.5 5.7 7.0 7.4 8.6 9.3 8.5 8.2 9.0 6.7 6.3 4.0 1.7 1.8 1.5 4.5-5.0 8.6 5.3 5.8 8.3 6.9 8.6 8.7 6.5 8.0 6.0 6.7 3.1 1.7 2.0 1.7 5.5-6.0 (High) 7.1 7.0 8.2 7.9 8.3 9.2 9.5 7.3 6.4 7.0 5.6 2.8 1.7 2.2 1.7 Race/Ethnicity (2-year average): b White 6.3 6.4 7.4 8.0 8.6 9.7 10.1 9.1 8.3 7.5 5.8 3.0 2.2 2.2 9.5 0.6 0.6 0.9 1.6 1.3 0.8 8.0 0.8 0.7 African American 0.6 1.0 1.3 1.1 8.0 1.3 Hispanic 3.6 4.1 5.1 6.4 7.4 6.3 5.9 7.0 7.6 5.8 3.8 1.7 5.4 1.8 1.7

TABLE 30 (cont.)
LSD: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

					Percer	tage who	o used in	last 12 r	months					
A	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2014 <sup>c</sup>	2015°	2016°	2017°	2018°	2016-2017 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	1.7	2.1	2.7	1.9	2.6	2.7	2.4	2.2	2.5	2.9	3.0	3.3	3.2	-0.2
Gender:														
Male	2.1	3.0	3.7	2.4	3.6	3.6	2.9	2.9	3.4	3.5	4.1	4.4	4.4	0.0
Female	1.1	1.2	1.6	1.3	1.4	1.7	1.6	1.3	1.5	2.1	1.9	2.1	1.6	-0.5
College Plans:														
None or under 4 years	2.6	4.1	4.8	2.5	4.2	3.7	3.1	3.4	3.7	4.4	3.6	4.9	5.0	+0.1
Complete 4 years	1.4	1.6	2.1	1.6	2.1	2.4	2.2	1.7	2.2	2.4	2.8	2.7	2.5	-0.3
Region:														
Northeast	3.0	2.1	3.0	2.6	3.7	3.0	2.9	2.7	2.6	2.3	3.2	2.9	3.7	+0.8
Midwest	1.6	2.7	2.5	2.4	2.8	3.0	1.9	2.3	2.3	2.4	3.5	2.8	3.5	+0.7
South	1.4	1.7	3.0	1.2	2.0	2.1	2.1	1.8	3.1	3.1	2.3	2.8	2.7	-0.1
West	1.1	2.0	2.2	1.5	2.3	2.9	2.8	2.2	1.6	3.5	3.6	4.8	3.1	-1.8
Population Density:														
Large MSA	2.2	2.4	2.7	2.4	2.4	2.4	2.5	2.2	2.6	3.3	3.1	3.9	2.8	-1.1
Other MSA	1.5	2.0	2.8	1.7	2.9	3.0	2.7	2.4	2.6	3.2	3.4	3.4	3.6	+0.2
Non-MSA	1.2	1.8	2.6	1.4	2.0	2.3	1.4	1.5	2.1	1.5	1.9	2.1	2.9	+0.8
Parental Education: a														
1.0-2.0 (Low)	1.5	2.3	2.3	1.8	1.9	2.4	1.7	2.0	2.0	3.8	2.4	2.9	3.0	0.0
2.5-3.0	2.0	1.9	2.4	1.6	2.3	2.3	2.6	2.8	2.5	2.7	2.8	3.4	3.1	-0.3
3.5-4.0	1.9	2.1	2.4	1.6	2.7	2.8	2.4	1.9	2.7	2.9	3.1	3.5	3.1	-0.4
4.5–5.0	1.3	2.0	2.8	1.9	2.3	2.7	2.4	1.9	2.1	2.5	3.0	3.1	2.5	-0.6
5.5-6.0 (High)	1.1	2.3	3.2	2.1	3.2	2.4	2.2	2.1	2.8	2.9	3.3	3.2	3.4	+0.2
Race/Ethnicity (2-year average): b														
White	1.8	2.1	2.8	2.6	2.7	3.3	3.1	2.5	2.4	2.6	2.9	3.5	3.6	+0.1
African American	0.9	0.8	0.8	0.7	0.8	1.0	0.9	0.8	1.1	1.3	1.1	1.5	1.5	0.0
Hispanic	1.4	1.8	1.8	1.3	0.9	1.0	1.3	1.7	2.0	3.1	3.7	2.9	2.6	-0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

cln 2014 questions on use of LSD were dropped from one of six forms. Beginning in 2014 data are based on five of six forms; N is five sixths of N indcated.

TABLE 31

HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months 2001<sup>a</sup> 1991 1992 1993 1994 1995 1996 <u> 1997</u> 1998 1999 2000 2002 2003 2004 2005 Approximate weighted N = 17,50017,800 18,600 18,100 16,700 16,700 16,200 15,100 16,500 17,000 16,800 18,600 18,300 17,300 17,500 Total 0.7 1.1 1.0 1.3 2.0 1.8 1.6 1.5 1.4‡ 2.4 2.1 2.1 1.9 2.0 Gender 0.8 Male 1.1 1.2 1.6 1.9 2.1 2.1 1.8 1.8 1.5‡ 2.8 2.4 2.4 1.9 2.2 Female 0.6 1.0 0.9 0.9 1.4 1.4 1.4 1.1 1.3‡ 2.0 1.7 1.8 1.8 1.8 College Plans: None or under 4 years 1.7 3.6 2.9 3.6 4.8 5.2 4.7 5.1 5.3 3.9‡ 7.4 6.5 7.5 6.5 6.1 Complete 4 years 0.5 0.7 0.7 1.0 1.3 1.2 1.0 1.2‡ 1.8 1.6 1.5 1.6 1.4 Region: Northeast 0.4 0.6 0.7 1.4 1.8 2.1 1.7 1.2 1.4 1.3‡ 2.1 1.3 1.9 1.6 1.5 Midwest 0.6 1.3 1.9 2.1 1.9 0.6 1.1 1.6 1.8 1.8 1.7 1.8‡ 1.8 2.2 1.7 South 0.7 2.2 1.0 1.0 1.0 1.5 1.7 1.4 1.8 1.6 1.3‡ 2.9 2.2 1.9 2.4 West 1.3 1.9 1.9 1.9 1.3 1.1 1.4‡ 2.3 2.2 2.0 Population Density: Large MSA 0.7 0.8 2.0 0.7 1.6 1.6 1.8 1.4 1.3 1.1 1.2‡ 1.9 1.6 1.6 1.4 Other MSA 0.7 1.3 1.3 1.4 1.8 2.2 1.9 1.6 1.5 1.7‡ 2.6 1.9 2.1 2.1 2.0 Non-MSA 0.7 1.0 0.9 8.0 1.5 1.7 1.9 2.0 1.9 1.3‡ 2.6 3.0 3.0 2.0 2.2 Parental Education: b 1.0-2.0 (Low) 1.5 1.8 1.4 1.6 2.4 2.2 2.6 2.7 2.6 2.5‡ 5.0 3.4 3.5 3.9 2.7 2.5-3.0 0.8 0.7 1.7 2.1 2.0 1.3 1.9 1.5‡ 2.3 2.6 2.9 1.1 1.1 2.8 2.0 3.5-4.0 0.4 1.2 1.2 1.2 1.8 2.0 1.8 1.3‡ 2.6 1.9 2.2 1.7 2.6 1.6 1.3 4.5-5.0 0.8 0.9 0.7 1.5 1.6 2.0 1.6 1.5 0.9 1.1‡ 1.6 1.7 1.5 1.6 1.6 5.5-6.0 (High) 0.8 1.3 0.9 1.5 1.7 1.9 1.9 1.5 2.0‡ 1.9 1.5 1.6 1.4 1.6 1.0 Race/Ethnicity (2-year average): c 0.9 1.0 1.2 1.7 2.1 2.1 1.8 1.6 1.6 1.4± 1.5<sup>d</sup> 2.3 2.1  $0.4^{d}$ African American 0.4 0.5 0.5 0.4 0.4 0.3 0.3 0.3 0.3 0.3±0.6 0.8 0.9 1.8<sup>d</sup> 2.2 2.2 1.8 1.2‡ 2.2 2.2 Hispanic 1.5 1.5 1.5 1.8 2.1 2.0 2.1

TABLE 31 (cont.)

## **HALLUCINOGENS OTHER THAN LSD:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in Grade 8

					Percen	tage wh	o used ir	last 12	months					
Approximate weighted N =	2006 16,500	2007 16,100	2008 15,700	2009 15,000	2010 15,300	2011 16,000	2012 15,100	2013 14,600	2014 14,600	2015 14,400	2016 16,900	<u>2017</u> 15,300	2017 14,000	2017-2018 <u>change</u>
Total	1.8	1.6	1.6	1.5	1.8	1.8	1.3	1.2	1.0	0.8	0.8	0.7	0.9	+0.2
Gender:														
Male	1.8	1.7	1.6	1.7	2.1	2.1	1.3	1.2	1.2	1.0	8.0	0.6	1.1	+0.5 ss
Female	1.7	1.4	1.5	1.4	1.6	1.4	1.2	1.1	0.7	0.7	0.7	0.7	0.7	0.0
College Plans:														
None or under 4 years	5.5	6.0	6.9	5.9	6.0	5.8	3.8	3.7	3.2	3.1	2.5	2.0	2.3	+0.3
Complete 4 years	1.4	1.2	1.1	1.2	1.5	1.5	1.1	1.0	8.0	0.6	0.6	0.5	0.7	+0.2
Region:														
Northeast	1.2	0.8	1.0	1.3	1.4	0.9	1.2	0.5	0.5	0.6	0.4	0.4	0.5	0.0
Midwest	1.7	1.7	1.4	1.4	2.0	1.4	0.7	1.1	8.0	8.0	0.6	0.3	0.8	+0.5 s
South	1.8	1.4	1.7	1.4	1.4	1.5	1.6	1.3	0.9	0.9	0.9	0.8	0.9	+0.2
West	2.2	2.3	1.8	2.1	2.6	3.4	1.4	1.5	1.5	0.9	1.1	1.1	1.3	+0.2
Population Density:														
Large MSA	1.2	1.3	1.4	1.2	1.6	1.7	1.4	1.0	8.0	0.7	0.7	0.5	1.1	+0.6 ss
Other MSA	2.0	1.6	1.7	1.6	2.0	2.2	1.4	1.2	1.0	1.0	0.8	0.8	0.8	0.0
Non-MSA	2.1	2.0	1.3	1.8	1.7	1.1	0.9	1.2	1.1	8.0	1.0	0.7	0.8	+0.1
Parental Education: b														
1.0-2.0 (Low)	2.3	2.5	3.1	3.3	2.7	3.1	1.6	1.8	1.6	1.1	1.3	1.1	1.3	+0.2
2.5-3.0	2.2	1.5	1.7	1.3	2.4	2.3	1.5	1.4	1.1	8.0	1.0	0.8	0.9	+0.1
3.5-4.0	1.8	1.9	1.7	1.6	2.0	1.9	1.7	1.2	1.0	8.0	1.1	0.8	1.2	+0.3
4.5–5.0	1.7	1.2	1.2	1.3	1.7	1.4	0.8	0.9	0.6	0.6	0.4	0.4	0.8	+0.4
5.5-6.0 (High)	1.2	0.9	1.3	1.3	1.0	1.2	1.1	1.0	1.0	0.7	0.6	0.6	0.5	0.0
Race/Ethnicity (2-year average): c														
White	2.2	1.8	1.7	1.6	1.8	1.8	1.3	1.1	1.0	8.0	0.7	0.7	0.7	0.0
African American	0.9	0.6	0.6	0.6	0.6	0.5	0.7	0.7	0.4	0.5	0.7	0.6	0.3	-0.2
Hispanic	1.4	1.6	1.9	1.8	2.1	2.6	2.3	1.6	1.3	1.0	0.9	0.8	0.8	0.0

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 have been the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and treated in a parallel manner.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 32 HALLUCINOGENS OTHER THAN LSD:** Trends in **Annual** Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months 2001<sup>a</sup> 1992 1993 1994 1995 1996 1997 1998 1999 2000 2002 2003 2005 Approximate weighted N = 14,80015,300 15,800 17,000 15,600 15,500 15,000 13,600 14,300 14,000 14,300 15,800 16,400 16.200 14,800 Total 1.3 1.4 1.9 2.4 2.8 3.3 3.3 3.4 3.2 3.1‡ 4.4 4.0 3.6 3.7 3.5 Gender: Male 1.5 1.6 2.5 3.0 3.4 3.8 4.1 3.9 4.1 3.8‡ 5.7 4.6 4.4 4.3 4.2 1.2 2.7 2.5 2.3 3.2 2.9 Female 1.1 1.1 1.7 2.1 2.8 2.4‡ 3.1 3.4 2.8 College Plans: None or under 4 years 2.5 2.7 3.7 4.8 5.3 6.2 4.8 7.3 6.7 6.1‡ 10.9 8.8 7.3 8.2 8.5 Complete 4 years 1.1 1.5 2.3 2.7 3.0 2.6 2.6 2.6‡ 3.3 3.3 2.9 3.1 2.8 1.1 Region: Northeast 1.4 0.7 2.3 4.7 4.4 3.2 3.0 3.9 3.2 4.5 3.4‡ 4.2 3.6 3.4 4.3 Midwest 1.0 1.2 1.7 1.9 2.2 3.2 3.4 3.2 2.8 3.3‡ 4.0 4.3 2.9 3.3 3.6 South 1.3 1.2 1.5 2.1 2.7 3.1 3.1 3.2 2.7 2.9‡ 3.6 3.4 3.5 3.3 3.0 West 1.6 2.6 2.5 3.0 3.5 3.6 2.5 3.3 3.0‡ 6.7 5.1 4.5 4.2 3.3 3.0 Population Density: Large MSA 1.4 1.5 1.9 2.4 2.7 3.4 3.3 3.1 3.1 3.9‡ 3.4 4.0 2.8 2.7 2.9 Other MSA 1.4 1.4 1.9 2.5 3.0 3.5 3.2 3.4 3.5 2.9‡ 4.8 4.0 3.9 4.4 3.9 Non-MSA 1.0 1.2 2.0 2.3 2.5 2.7 3.5 3.5 2.7 2.8‡ 4.5 3.9 3.8 3.6 3.6 Parental Education: b 1.0-2.0 (Low) 3.1 1.5 1.5 2.0 2.6 3.3 3.4 2.4 2.9 3.4 2.5‡ 4.8 4.4 5.2 2.8 2.5-3.0 1.2 1.0 1.4 1.8 2.7 3.4 2.7 4.2 3.0 2.6‡ 4.4 4.3 4.2 4.5 4.1 3.5-4.0 1.3 1.7 2.3 2.3 3.0 3.2 3.6 3.0 2.8 3.2‡ 4.3 4.0 3.3 3.6 3.6 4.5-5.0 1.2 1.5 1.9 2.6 2.5 3.3 3.7 3.0 3.7 3.7‡ 4.4 3.5 3.2 3.5 3.5 5.5-6.0 (High) 1.8 2.1 2.8 2.5 3.6 3.7 3.7 3.7‡ 4.6 3.0 3.5 1.1 3.5 3.9 3.3 Race/Ethnicity (2-year average): c 4.0<sup>d</sup> 1.5 1.8 2.3 2.8 3.4 3.9 4.0 4.0 3.8 3.4‡ 4.7 4.4 4.2 1.3<sup>d</sup> African American 0.1 0.4 0.7 0.7 0.4 0.3 0.4 0.5 0.6 1.1‡ 0.9 0.7 1.1 2.4 2.5<sup>d</sup>

Hispanic

1.3

1.5

1.9

2.0

2.1

Table continued on next page.

2.8

2.6

2.0

1.6‡

2.9

3.2

3.5

TABLE 32 (cont.)

# HALLUCINOGENS OTHER THAN LSD: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

### Percentage who used in last 12 months

•														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	3.7	3.8	3.3	3.5	3.5	3.5	3.0	2.7	2.6	1.9	2.0	1.8	1.7	-0.1
Gender:														
Male	4.1	4.7	4.0	4.4	4.4	4.1	4.0	3.5	2.5	2.2	2.3	2.1	1.9	-0.2
Female	3.1	3.0	2.6	2.6	2.5	2.9	2.1	2.0	2.7	1.6	1.5	1.4	1.4	0.0
College Plans:														
None or under 4 years	9.0	8.9	9.0	9.0	10.0	9.4	8.7	4.8	6.3	4.9	4.6	4.9	3.6	-1.2
Complete 4 years	3.0	3.2	2.6	2.9	2.8	2.8	2.4	2.5	2.1	1.6	1.7	1.4	1.4	0.0
Region:														
Northeast	3.7	4.1	2.9	2.7	3.3	3.3	2.8	1.8	2.9	2.1	1.4	1.0	1.1	+0.1
Midwest	3.7	4.0	3.3	3.8	2.9	2.9	2.4	2.3	2.4	1.3	1.7	1.6	1.5	-0.1
South	3.0	3.1	3.5	3.3	3.5	3.4	3.0	2.8	2.2	2.0	1.7	1.2	2.0	+0.7
West	4.7	4.4	3.6	4.3	4.4	4.6	3.9	3.7	2.8	2.4	3.0	3.4	2.1	-1.3
Population Density:														
Large MSA	3.8	3.4	3.3	3.4	3.2	3.5	2.8	2.0	2.2	1.7	2.0	1.8	1.5	-0.3
Other MSA	3.7	4.1	3.6	3.6	3.7	3.8	3.2	3.1	2.8	2.0	2.1	1.6	1.9	+0.2
Non-MSA	3.3	3.8	2.9	3.4	3.6	3.0	2.9	2.7	2.5	2.1	1.8	2.1	1.6	-0.5
Parental Education: b														
1.0-2.0 (Low)	4.7	4.5	4.7	5.0	4.7	4.9	4.1	3.6	2.5	2.8	2.0	1.9	2.2	+0.3
2.5-3.0	3.8	3.9	3.3	3.2	5.0	4.1	3.5	3.5	2.6	2.7	2.6	2.6	1.9	-0.7
3.5-4.0	3.4	4.1	3.5	3.7	3.4	3.3	2.8	3.0	3.1	2.3	2.2	2.0	1.7	-0.3
4.5-5.0	3.7	3.8	2.9	3.2	2.8	3.1	2.9	2.4	2.2	1.6	1.5	1.4	1.4	-0.1
5.5-6.0 (High)	3.8	3.3	2.6	3.8	2.6	3.2	2.4	2.0	2.1	1.2	1.6	1.3	1.9	+0.6
Race/Ethnicity (2-year average): c														
White	4.2	4.4	4.2	3.9	3.8	3.8	3.5	3.0	2.7	2.4	2.2	2.2	1.9	-0.2
African American	1.2	0.8	0.7	1.1	1.2	1.0	1.1	1.1	0.9	1.4	1.2	0.6	0.4	-0.2
Hispanic	3.0	2.3	2.9	3.6	3.7	3.7	3.5	2.9	2.4	2.0	1.9	1.8	1.9	0.0

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner. <sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 33

HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 mg	onths
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•																
Approximate weighted N =	<u>1975</u> 9.400	<u>1976</u> 15.400	<u>1977</u> 17.100	<u>1978</u> 17.800	<u>1979</u> 15,500	<u>1980</u> 15.900	<u>1981</u> 17,500	<u>1982</u> 17.700	<u>1983</u> 16.300	<u>1984</u> 15.900	<u>1985</u> 16.000	<u>1986</u> 15.200	<u>1987</u> 16.300	1988 16.300	<u>1989</u> 16.700	<u>1990</u> 15,200
Total	9.4	7.0	6.9	7.3	6.8	6.2	5.6	4.7	4.1	3.8	3.6	3.0	3.2	2.1	2.2	2.1
Gender:	0		0.0		0.0	0.2	0.0			0.0	0.0	0.0	0.2			
Male	12.1	8.8	8.9	8.8	8.0	8.0	6.9	5.7	4.9	4.8	4.6	3.4	3.7	2.7	3.1	3.0
Female	7.5	5.0	4.9	5.5	5.3	4.2	4.0	3.6	3.1	2.7	2.5	2.5	2.6	1.4	1.1	1.1
College Plans:																
None or under 4 years	_	8.3	8.6	8.1	7.6	6.7	6.0	5.1	4.8	4.5	4.1	3.3	3.5	2.5	2.7	2.1
Complete 4 years	_	5.2	4.9	5.7	5.3	5.1	5.0	4.1	3.1	3.0	2.9	2.5	2.8	1.8	1.9	1.9
Region:																
Northeast	12.0	7.8	8.2	10.3	10.2	10.0	9.0	8.1	6.1	8.4	7.1	5.1	4.8	2.6	2.5	2.9
Midwest	11.3	7.9	7.9	7.6	6.8	6.7	5.7	4.8	4.4	2.9	3.1	2.7	3.5	1.6	2.3	1.7
South	7.1	5.7	5.4	4.8	4.1	3.1	2.0	1.8	2.4	1.5	1.5	1.4	1.7	2.0	1.9	1.7
West	7.7	6.7	6.3	7.2	6.6	5.9	6.9	4.9	4.1	4.5	3.6	3.3	3.3	2.5	2.3	2.6
Population Density:																
Large MSA	11.1	7.8	7.5	9.3	8.8	8.5	8.1	7.3	6.6	6.9	6.1	5.1	4.8	3.3	2.6	2.3
Other MSA	10.7	7.3	7.2	6.9	7.2	6.5	5.0	3.7	4.0	3.1	3.0	2.4	2.5	1.7	2.0	2.4
Non-MSA	6.8	6.1	6.1	6.1	4.7	4.1	4.4	4.0	2.4	2.4	2.4	2.1	2.9	1.6	2.1	1.5
Parental Education: a																
1.0-2.0 (Low)	7.5	5.1	5.4	5.7	4.7	5.8	3.9	3.7	3.6	2.8	2.7	2.3	3.4	2.7	2.0	1.5
2.5–3.0	8.7	7.6	6.9	7.2	6.5	5.9	5.1	4.7	3.6	3.8	3.5	3.1	2.9	1.5	1.8	1.2
3.5-4.0	9.1	7.5	7.4	7.3	6.6	5.8	5.8	4.8	4.5	3.6	4.1	3.2	3.0	1.8	1.8	2.2
4.5–5.0	9.7	8.4	7.0	7.8	7.5	6.4	6.0	4.7	3.9	3.8	3.6	2.7	3.3	2.2	2.6	2.8
5.5-6.0 (High)	7.4	7.2	7.8	7.9	9.2	7.2	7.0	6.7	4.6	5.3	2.6	2.8	3.5	3.1	3.3	3.6
Race/Ethnicity (2-year average): b																
White	_	_	7.6	7.6	7.5	7.0	6.3	5.6	4.7	4.3	4.0	3.5	3.4	3.0	2.4	2.4
African American	_	_	1.6	1.6	1.3	1.4	1.3	1.2	1.6	1.3	8.0	0.9	0.9	0.6	0.5	0.4
Hispanic	_	_	5.1	5.2	4.8	4.4	4.5	4.8	4.2	3.4	3.7	3.3	2.1	1.7	1.6	1.5

TABLE 33 (cont.)

HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Percer	tage who	o used ir	last 12	months					
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	<u>2001</u> °	2002	2003	2004	2005
Approximate weigh	nted N = 15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	2.0	1.7	2.2	3.1	3.8	4.4	4.6	4.6	4.3	4.4‡	5.9	5.4	5.4	5.6	5.0
Gender:															
Male	2.7	2.3	3.0	4.3	5.3	5.7	5.9	6.0	5.4	5.8‡	7.2	7.2	7.2	7.7	6.7
Female	1.3	1.2	1.3	1.9	2.1	2.8	3.2	3.0	3.1	2.9‡	4.2	3.5	3.4	3.4	3.2
College Plans:															
None or under 4 years	2.4	2.2	2.5	3.2	4.4	5.1	4.7	6.1	4.4	5.6‡	7.3	7.9	7.3	6.9	6.8
Complete 4 years	1.9	1.5	2.0	2.9	3.4	4.0	4.4	3.9	4.0	3.8‡	5.0	4.6	4.5	4.9	4.4
Region:															
Northeast	3.5	2.5	2.6	5.1	5.3	6.1	6.6	6.3	5.5	5.0‡	6.9	7.5	7.3	6.7	4.9
Midwest	1.9	1.8	2.0	3.1	3.2	3.5	2.8	4.1	3.7	3.6‡	6.9	5.0	4.7	4.6	6.3
South	1.0	1.3	1.8	1.9	3.1	3.6	4.0	3.5	3.3	3.3‡	3.1	4.5	4.3	4.9	4.7
West	2.6	1.8	2.9	3.6	4.5	5.4	6.1	5.5	5.7	6.9‡	8.0	5.6	6.0	6.9	4.0
Population Density:															
Large MSA	1.8	2.1	2.5	3.6	4.9	5.2	4.0	4.4	4.5	5.2‡	7.6	5.9	3.9	5.2	5.1
Other MSA	2.6	1.7	2.2	3.6	3.7	4.7	5.4	5.1	4.2	4.3‡	5.4	5.8	6.5	6.6	5.4
Non-MSA	1.2	1.4	2.0	1.8	2.7	3.1	3.6	3.7	4.2	3.8‡	4.8	4.3	5.1	4.1	4.0
Parental Education: a															
1.0-2.0 (Low)	1.9	1.3	1.7	2.2	2.7	3.5	2.7	3.7	2.2	3.8‡	3.8	4.3	4.7	3.3	2.9
2.5-3.0	1.6	1.6	1.5	2.4	3.4	3.0	3.5	3.9	3.3	3.6‡	5.4	5.4	4.3	4.9	5.1
3.5-4.0	2.0	1.8	2.4	2.9	3.6	4.0	4.8	4.6	5.1	4.2‡	6.1	5.6	5.9	6.0	4.9
4.5-5.0	2.4	1.7	2.7	3.7	4.2	5.2	5.3	5.0	4.4	4.6‡	5.5	5.8	6.0	6.3	5.3
5.5-6.0 (High)	2.4	2.1	3.0	4.4	4.1	5.9	5.9	5.4	4.7	5.8‡	6.6	5.1	4.8	5.6	5.3
Race/Ethnicity (2-year average	ge): <sup>b</sup>														
White	2.4	2.2	2.2	3.0	3.8	4.4	5.2	5.6	5.2	4.8	4.7‡	5.4 <sup>d</sup>	6.3	6.4	6.1
African American	0.3	0.3	0.5	0.7	0.8	8.0	0.7	0.6	0.6	1.0	0.9‡	0.9 <sup>d</sup>	0.9	0.9	1.2
Hispanic	1.7	1.4	1.4	1.6	2.6	3.5	3.1	2.7	3.0	4.6	4.8‡	4.1 <sup>d</sup>	4.1	3.7	3.6

TABLE 33 (cont.)

## **HALLUCINOGENS OTHER THAN LSD:** Trends in <u>Annual Prevalence of Use</u> by Subgroups in Grade 12

					Percen	tage who	used in	last 12 ı	months					
	2006	2007	2008	2009	2010	<u>2011</u>	2012	2013	2014 <sup>e</sup>	2015 <sup>e</sup>	2016 <sup>e</sup>	2017 <sup>e</sup>	2018 <sup>e</sup>	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800		13,300	<u>change</u>
Total	4.6	4.8	5.0	4.2	4.8	4.3	4.0	3.7	3.0	2.9	2.7	2.9	2.7	-0.2
Gender:														
Male	5.7	6.8	6.7	5.7	6.9	5.9	5.3	5.0	4.1	3.6	3.5	4.1	3.6	-0.5
Female	3.3	2.9	3.4	2.6	2.5	2.7	2.6	2.2	2.1	1.9	1.8	1.8	1.4	-0.4
College Plans:														
None or under 4 years	6.5	7.2	6.3	5.0	7.1	6.7	4.7	4.9	4.1	4.9	3.2	4.1	4.3	+0.2
Complete 4 years	4.1	4.2	4.7	3.9	4.2	3.8	3.9	3.3	2.7	2.3	2.5	2.5	2.0	-0.5
Region:														
Northeast	6.4	6.0	7.2	3.8	5.0	4.7	4.0	3.3	3.4	2.8	3.1	2.9	3.0	+0.1
Midwest	4.7	4.6	3.9	5.3	4.5	4.2	4.1	4.1	3.2	2.7	2.9	2.1	2.9	+0.8
South	3.8	3.8	4.6	3.7	3.9	3.2	3.5	3.5	2.6	2.4	2.0	2.6	1.9	-0.7
West	4.2	5.7	5.4	4.0	6.2	5.8	4.7	3.7	3.4	4.1	3.6	4.3	3.6	-0.7
Population Density:														
Large MSA	5.5	5.5	6.0	4.5	5.0	4.1	4.8	3.7	3.1	2.8	2.5	3.4	2.3	-1.0
Other MSA	4.2	4.7	4.9	4.3	5.1	4.7	4.0	4.1	3.3	3.3	2.9	2.8	2.6	-0.2
Non-MSA	3.9	4.1	4.4	3.6	3.6	3.6	2.8	2.6	2.3	2.2	2.7	2.6	3.6	+1.1
Parental Education: a														
1.0-2.0 (Low)	4.9	3.5	3.4	3.0	3.1	4.5	2.8	3.5	2.2	3.0	2.9	3.0	2.7	-0.3
2.5–3.0	4.5	4.3	3.9	4.1	4.1	3.7	4.3	3.5	3.2	2.9	2.4	2.8	2.8	0.0
3.5-4.0	4.9	4.9	4.8	4.4	5.5	4.3	4.1	4.2	3.3	3.3	2.5	3.2	2.5	-0.7
4.5–5.0	4.3	4.9	6.0	4.7	4.7	4.0	4.3	3.0	3.1	2.4	3.0	2.5	2.1	-0.4
5.5-6.0 (High)	4.5	5.8	6.1	4.1	4.8	5.1	3.4	4.3	2.8	3.0	2.7	3.3	2.7	-0.5
Race/Ethnicity (2-year average): b														
White	5.5	5.6	6.0	5.6	5.4	5.5	4.9	4.4	3.8	3.2	3.0	3.1	3.0	0.0
African American	1.4	1.2	1.0	0.9	1.0	1.3	1.4	1.3	1.4	1.3	1.1	1.3	1.2	-0.1
Hispanic	3.5	3.4	3.0	2.8	3.0	2.8	2.6	3.0	2.7	2.7	2.8	2.3	2.1	-0.3

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half

with the new version of the question) and all of the 2002 sample data.

<sup>&</sup>lt;sup>6</sup>In 2014 questions on use of hallucinogens other than LSD were dropped from one of six forms. Beginning in 2014 data are based on five of six forms; N is five sixths of N indicated.

TABLE 34

MDMA (ECSTASY, MOLLY): Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

										Pe	ercentage	who us	ed in las	t 12 mon	iths										
	<u>1991-</u> <u>1995</u>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =	<u>1995</u>	17,800	18,600		16,700	16,700	16,200	15,100		17,000	16,800	16,500	16,100		15,000	15,300	16,000	15,100	14,600	14,600	14,400		15,300	14,000	change
Total, original wording	_	2.3	2.3	1.8	1.7	3.1	3.5	2.9	2.1	1.7	1.7	1.4	1.5	1.7	1.3	2.4	1.7	1.1	1.1	0.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.5	1.4	1.0	0.9	1.1	+0.2
Gender:																									
Male, original wording	_	2.2	2.7	2.3	1.7	3.1	3.4	3.1	1.8	1.7	1.6	1.0	1.3	1.4	1.3	2.5	2.0	0.9	1.1	1.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.6	1.2	1.0	0.9	1.2	+0.3
Female, original wording	_	2.3	2.0	1.3	1.7	3.0	3.7	2.6	2.2	1.8	1.7	1.7	1.7	2.0	1.2	2.4	1.4	1.2	1.1	0.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.5	1.5	0.9	0.9	0.9	0.0
College Plans:																									
None or under 4 years, original	_	4.8	6.1	4.8	5.3	6.5	9.2	9.1	6.9	5.4	5.9	3.8	5.4	6.9	4.9	9.9	4.7	3.0	3.1	3.0	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	4.1	3.3	2.9	3.1	3.3	+0.2
Complete 4 years, original	_	1.9	2.0	1.5	1.2	2.7	2.9	2.3	1.5	1.3	1.3	1.2	1.1	1.3	1.0	1.9	1.5	0.9	1.0	0.7	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	1.3	1.2	0.8	0.7	0.7	0.0
Region:																									
Northeast, original wording	_	2.1	1.5	1.6	1.8	2.4	3.8	2.0	1.8	1.8	1.1	0.8	0.5	1.2	1.0	1.2	0.9	1.2	0.6	0.6	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	1.4	1.0	0.6	0.6	0.7	+0.1
Midwest, original wording	_	1.7	1.7	1.7	1.4	3.5	2.9	2.3	2.1	1.4	1.7	1.6	1.2	1.4	1.0	2.4	0.9	0.3	1.2	0.7	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	1.2	1.3	0.9	1.0	0.7	-0.3
South, original wording	_	2.8	2.3	2.7	1.8	3.2	3.7	3.7	2.5	1.9	2.1	2.0	1.8	1.8	1.1	2.5	1.5	1.4	1.3	1.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.7	1.7	1.1	0.9	1.2	+0.3
West, original wording	_	2.3	3.8	0.8	1.7	2.9	3.6	3.0	1.6	1.7	1.5	0.7	1.9	2.2	2.2	3.2	3.7	1.3	1.2	1.1	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	1.5	1.1	1.1	1.1	1.6	+0.5
Population Density:																									
Large MSA, original wording	_	2.9	1.8	1.8	1.6	3.0	3.1	2.6	1.8	2.1	1.6	1.1	1.4	1.9	1.3	2.5	1.9	1.1	1.1	1.1	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.2	1.7	0.7	0.9	1.2	+0.3
Other MSA, original wording	_	2.5	3.1	2.1	1.8	3.4	4.3	3.3	1.9	1.9	1.6	1.6	1.5	1.7	1.4	2.6	1.9	1.3	1.3	0.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.8	1.4	1.1	0.9	1.1	+0.1
Non-MSA, original wording	_	1.2	1.5	1.5	1.6	2.5	2.5	2.5	2.7	1.0	1.9	1.6	1.8	1.3	1.0	2.0	1.2	0.6	0.8	0.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.2	0.9	1.2	0.8	0.9	+0.1
Parental Education: a																									
1.0-2.0 (Low), original wording	_	2.9	2.2	2.1	2.5	4.2	5.8	6.0	3.6	3.6	2.5	2.8	3.1	4.1	1.8	5.0	2.2	2.1	2.3	1.4	_	_	_	_	_
Revised, includes "Molly"	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	2.4	2.5	1.7	2.1	2.0	-0.1
2.5-3.0, original wording	_	2.2	2.4	1.4	2.0	3.9	4.3	3.6	3.1	2.2	3.0	1.5	1.9	1.7	1.6	3.8	2.2	1.7	1.2	1.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.1	1.5	1.1	1.5	1.4	-0.1
3.5-4.0, original wording	_	2.2	2.9	2.6	1.5	2.8	2.4	2.9	2.1	1.7	1.7	1.2	1.1	2.1	1.4	2.2	2.1	1.0	1.0	0.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	1.2	1.1	0.8	1.1	+0.3
4.5–5.0, original wording	_	2.6	2.0	1.4	1.2	3.1	3.3	2.4	1.4	1.2	1.1	1.3	1.4	1.0	1.1	1.9	1.5	0.6	1.1	0.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.0	1.0	1.1	0.5	1.0	+0.5
5.5–6.0 (High), original wording	_	2.4	2.7	2.5	2.3	2.0	3.0	1.2	2.0	1.7	0.9	1.2	0.8	0.8	1.1	1.1	1.1	0.6	0.6	1.0	_	_	_	_	_
Revised, includes "Molly"	_		_					_				_	_		_	_				1.3	0.8	0.3	0.5	0.5	+0.1

TABLE 34 (cont.)

MDMA (ECSTASY, MOLLY): Trends in Annual Prevalence of Use by Subgroups in Grade 8

_										Pe	rcentage	who us	ed in last	t 12 mon	ths										
	1991- 1995	1996	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =	_	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Race/Ethnicity (2-year average): b																									
White, original wording	_		2.7	2.4	1.9	2.5	3.2	2.9	2.4	1.9	1.5	1.5	1.4	1.6	1.5	1.9	1.8	1.0	0.9	1.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	0.9	0.7	0.7	0.0
African American, original	_	_	0.3	0.4	0.5	0.6	1.1	1.1	1.0	1.6	1.8	1.4	1.2	0.7	0.4	0.7	1.1	1.0	0.9	1.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	1.3	1.2	0.5	-0.7
Hispanic, original wording	_	_	2.5	1.7	1.9	3.3	5.3	5.9	4.0	2.3	2.3	1.8	1.8	2.1	2.1	2.6	3.1	2.4	1.8	1.5	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	1.3	1.0	1.3	+0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996; N is one half of N indicated in Table S1. Data based on one of four forms beginning in 2002; N is one half of N indicated in Table S1. In 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; N is one half of N indicated. Beginning in 2014 data reported here for the "Revised wording" which includes "Molly" are for only the questionnaires using the revised wording; N is two sixths of N indicated beginning in 2015.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. Two year race data for the 2014 "Original wording" are based on the 2013 and 2014 unchanged forms only. Two year race data for the 2015 "Revised wording" which includes "Molly" are based on the 2014 "Revised wording" data two and one half times weighted and the 2015 "Revised wording" data. Beginning in 2016 two year race data based only on "Revised wording" data.

TABLE 35

MDMA (ECSTASY, MOLLY): Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

										Pe	rcentage	who us	ed in last	t 12 mon	iths										
	1991-	4000	4007	4000	4000	0000	0004	0000	0000	0004	0005	0000	0007	0000	0000	0040	0044	0040	0040	004.4	0045	0040	0047	0040	2017-2018
Approximate weighted M	<u>1995</u>	1996 15.600	1997 15,500	1998 15.000	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002 14,300	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009 15,900	<u>2010</u>	2011 14,900	<u>2012</u>	2013 12,900	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N = Total, original wording	_	15,600 4.6	3.9	15,000 3.3	13,600 4.4	14,300 5.4	14,000 6.2	4.9	15,800 3.0	16,400 2.4	16,200 2.6	16,200 2.8	16,100 3.5	15,100 2.9	3.7	15,200 4.7	4.5	15,000 3.0	3.6	13,000 2.3	15,600	14,700	13,500	14,300	
Revised, includes "Molly"		4.0	3.9	3.3	4.4	5.4	0.2	4.9	3.0	2.4	2.0	2.0	3.3	2.9	3.1	4.7	4.5	3.0	3.0	3.8	2.4	1.8	1.7	1.4	-0.3
Gender:	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.0	2.4	1.0	1.7	1.4	-0.3
Male, original wording		4.0	4.7	3.5	4.7	5.7	7.6	4.3	2.8	2.4	2.6	3.3	3.7	3.4	3.7	5.4	4.9	3.3	4.4	2.3					
Revised, includes "Molly"	_	4.9	4.7	3.5	4.7	5.7	7.0	4.3	2.0	2.4	2.0	3.3	3.7	3.4	3.1	5.4	4.9	3.3	4.4	3.9	2.6	2.2	2.1	1.5	-0.6 s
Female, original wording		4.2	3.1	2.9	4.2	4.8	4.9	5.2	3.2	2.4	2.5	2.2	3.1	2.4	3.5	4.0	3.8	2.6	2.9	2.4	2.0	2.2	2.1	1.5	-0.0 S
Revised, includes "Molly"	_	4.2	3.1	2.9	4.2	4.0	4.9	5.2	3.2	2.4	2.5	2.2	3.1	2.4	3.5	4.0	3.0	2.0	2.9	3.6	2.1	1.4	1.3	1.3	0.0
College Plans:	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.0	2.1	1.4	1.3	1.3	0.0
None or under 4 years, original		7.7	7.5	5.4	8.5	10.7	13.6	10.1	5.7	5.4	5.6	6.9	7.4	7.5	8.6	9.2	10.6	8.3	7.0	5.1					
		1.1	7.5	5.4	6.5	10.7	13.0	10.1	5.7	5.4	5.0	0.9	7.4	7.5	0.0	9.2	10.0	0.3	7.0	8.7	5.9	4.0	4.5	3.4	_
Revised, includes "Molly"	_	4.0	3.3	2.9	3.7	4.5	— 5.1	<del>-</del> 4.1	2.6	2.0	2.2	2.2	3.0	2.3	3.1	4.2	3.8	2.4	3.2	2.1	5.9	4.8	4.5	3.4	-1.0
Complete 4 years, original wordin	_	4.0	3.3	2.9	3.7	4.5	5.1	4.1	2.0	2.0	2.2	2.2	3.0	2.3	3.1	4.2	3.0	2.4	3.2	3.2	2.0	1.5	1.4	1.1	-0.2
Revised, includes "Molly" Region:		_	_		_	_	_	_		_					_	_	_		_	3.2	2.0	1.5	1.4	1.1	-0.2
Northeast, original wording		4.4	3.0	3.8	7.0	6.4	8.2	4.4	2.7	2.6	2.2	2.2	2.9	2.0	2.0	3.7	3.2	1.9	3.3	2.0					
Revised, includes "Molly"		4.4	3.0	3.0	7.0	0.4	0.2	4.4	2.1	2.0			2.9	2.0	2.0	3.1	3.2	1.9	J.J	3.4	1.9	1.2	1.6	0.8	-0.8
Midwest, original wording		3.6	3.2	2.2	2.3	5.2	4.8	4.6	2.5	1.9	3.0	2.8	3.5	2.0	2.8	3.1	2.1	2.4	3.1	1.7	1.5	1.2	1.0	0.0	-0.8
Revised, includes "Molly"		3.0	5.2	2.2	2.5	5.2	4.0	4.0	2.5	1.5	3.0	2.0	J.J	2.0	2.0	J. I	2.1	2.4		3.1	1.9	1.6	2.1	1.6	-0.4
South, original wording		5.6	5.0	4.1	4.1	5.2	5.9	5.1	3.8	2.6	2.6	3.0	3.6	2.8	3.2	4.5	3.9	2.8	3.9	2.9	1.5	1.0	2.1	1.0	-0.4
Revised, includes "Molly"		5.0	5.0	4.1	4.1	5.2	5.5	J. I	5.0	2.0	2.0	3.0	5.0	2.0	5.2	4.5	5.5	2.0		4.8	3.1	1.8	1.5	1.6	0.0
West, original wording		4.1	3.7	2.7	4.4	5.0	6.8	5.2	3.0	2.7	2.5	3.0	3.8	4.5	6.8	7.8	9.2	4.8	3.8	2.4	J.1	1.0	1.5	1.0	_
Revised, includes "Molly"		4.1	5.7	2.7		3.0	0.0	5.2	5.0	2.7	2.5	5.0	5.0	4.5	0.0	7.0	5.2	4.0	5.0	3.3	2.3	2.4	1.8	1.4	-0.4
Population Density:																				0.0	2.0	2.4	1.0	1.4	-0.4
Large MSA, original wording	_	5.6	4.0	2.5	5.2	7.0	7.3	5.1	2.4	1.8	3.0	2.9	3.0	3.8	3.3	4.8	4.8	3.8	3.1	1.7	_	_	_	_	_
Revised, includes "Molly"	_	_				_	_	_		_	_	_	_	_	_				_	3.4	2.6	1.9	1.9	1.3	-0.6
Other MSA, original wording	_	4.6	3.6	4.1	4.7	5.3	5.5	5.2	3.1	3.1	2.5	2.7	3.7	2.7	4.0	5.3	5.1	2.9	4.6	3.0	_	_	_	_	
Revised, includes "Molly"	_	_	_			_	_	_	_	_	_		_		_	_	_	_	_	4.4	2.1	1.7	1.6	1.5	-0.2
Non-MSA, original wording	_	3.3	4.2	2.7	2.8	3.7	6.3	3.7	3.8	2.0	2.3	2.8	3.8	2.0	3.5	3.3	3.0	1.9	1.7	1.8		_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.1	2.7	1.9	1.7	1.4	-0.3
Parental Education: a																				0			•••		0.0
1.0–2.0 (Low), original wording	_	4.8	3.0	1.9	3.7	7.0	7.2	5.8	2.4	3.3	4.4	3.8	4.3	4.8	6.0	8.5	9.5	5.6	3.5	2.4	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	2.5	3.7	2.3	2.0	1.7	-0.3
2.5–3.0, original wording	_	4.7	3.9	3.1	4.4	4.9	6.5	5.5	3.8	3.3	2.8	2.9	4.7	3.5	4.8	5.6	5.0	3.0	5.0	2.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.6	2.3	2.0	2.6	1.6	-1.1 s
3.5–4.0, original wording	_	4.7	5.2	4.3	4.0	6.3	7.0	5.5	3.5	2.1	3.3	2.5	3.2	3.2	3.8	4.8	4.4	2.5	3.5	2.3	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	5.1	3.2	1.8	2.0	1.3	-0.8 s
4.5–5.0, original wording	_	4.2	2.5	2.9	4.3	5.0	5.3	3.9	2.7	2.3	2.2	2.7	3.2	2.0	2.5	3.6	2.5	2.9	3.1	2.1	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.8	1.9	1.8	1.1	1.3	+0.2
5.5–6.0 (High), original wording	_	5.3	4.0	4.4	5.6	4.8	5.8	4.6	2.3	1.4	1.4	3.3	2.8	2.1	3.4	3.6	3.8	2.5	3.0	2.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.5	1.7	1.5	1.3	1.6	+0.3

TABLE 35 (cont.)

MDMA (ECSTASY, MOLLY): Trends in Annual Prevalence of Use by Subgroups in Grade 10

										Pe	rcentage	who us	ed in las	t 12 mon	ths										
•	1991-	4000	4007	4000	4000	0000	0004	0000	0000	0004	0005	0000	0007	0000	0000	0040	0044	0040	0040	004.4	0045	0040	0047	0040	2017-2018
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	2005	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	change
Approximate weighted N =	_	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Race/Ethnicity (2-year average): b																									
White, original wording	_	_	4.8	4.0	4.4	5.3	6.0	6.2	4.6	3.1	2.7	2.9	3.5	3.4	2.9	3.7	4.0	3.2	2.9	3.2	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.5	2.2	1.7	1.4	-0.3
African American, original wording	_	_	8.0	1.2	1.3	1.5	2.2	1.8	1.5	0.9	0.6	1.0	1.3	1.3	1.5	1.9	2.2	1.8	1.3	1.3	_	_	_	_	
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.9	1.5	1.3	1.0	-0.4 s
Hispanic, original wording	_	_	3.6	2.3	2.4	4.6	5.4	4.3	3.4	3.0	4.3	3.9	2.7	3.8	5.6	7.3	8.7	7.3	5.1	3.9			_	_	
Revised, includes "Molly"	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	3.2	2.1	2.1	2.2	+0.1

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996; N is one half of N indicated in Table S2. Data based on two of four forms beginning in 2002; N is one half of N indicated in Table S2. In 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; N is one half of N indicated. Beginning in 2014 data reported here for the "Revised wording" which includes "Molly" are for only the questionnaires using the revised wording; N is two sixths of N indicated in 2014 and five sixths of N indicated beginning in 2015.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

bTo derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. Two year race data for the 2014 "Original wording" are based on the 2013 and 2014 unchanged forms only. Two year race data for the 2015 "Revised wording" which includes "Molly" are based on the 2014 "Revised wording" data two and one half times weighted and the 2015 "Revised wording" data. Beginning in 2016 two year race data based only on "Revised wording" data.

TABLE 36

MDMA (ECSTASY, MOLLY): Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

	Percent	age who	used in	last 12 n	nonths																				2017–
•	1975-																								2018
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total, original wording	_	4.6	4.0	3.6	5.6	8.2	9.2	7.4	4.5	4.0	3.0	4.1	4.5	4.3	4.3	4.5	5.3	3.8	4.0	3.6	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.0	3.6	2.7	2.6	2.2	-0.4
Gender:																									
Male, original wording	_	4.8	5.6	4.8	5.6	8.1	10.5	8.2	4.8	4.7	3.3	4.3	5.0	5.5	5.5	5.3	6.3	4.1	5.0	5.0	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.6	4.0	3.3	3.5	2.9	-0.6
Female, original wording	_	4.2	2.5	2.7	5.6	8.2	8.0	6.4	4.0	3.2	2.7	4.0	4.1	3.3	3.2	3.6	4.6	3.4	2.9	2.7	_	_	_	_	_
Revised, includes "Molly'	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.1	3.1	1.9	1.6	1.5	-0.1
College Plans:																									
None or under 4 years, original	_	6.9	3.8	4.7	4.2	8.5	9.8	8.9	6.5	5.3	3.7	6.0	6.5	7.2	6.1	4.7	8.5	4.8	4.3	3.8	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.6	6.1	3.0	3.8	3.4	-0.4
Complete 4 years, original wording	_	4.0	3.9	3.3	6.2	8.0	8.7	7.1	3.9	3.6	2.8	3.7	3.9	3.7	3.9	4.4	4.7	3.4	4.0	3.7	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.6	3.1	2.4	2.1	1.8	-0.3
Region:																									
Northeast, original wording	_	6.3	6.9	3.7	9.4	8.8	10.1	10.3	5.1	3.5	3.0	2.9	4.3	2.9	3.8	4.5	5.9	3.7	4.6	4.2	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.0	3.9	2.1	1.7	1.6	-0.1
Midwest, original wording	_	3.7	1.3	2.7	3.3	5.7	11.8	5.0	4.7	3.0	3.0	3.4	4.4	2.8	4.5	3.5	3.7	2.4	3.9	3.1	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.8	2.3	2.9	1.9	2.2	+0.3
South, original wording	_	4.6	4.3	4.0	5.7	5.9	5.7	7.9	4.2	5.1	3.4	4.9	4.6	4.6	3.8	3.6	4.4	3.2	3.7	3.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.4	2.7	2.4	2.6	1.8	-0.8
West, original wording	_	3.9	4.1	4.0	5.0	14.4	10.3	6.8	4.2	3.8	2.5	4.6	4.7	6.6	5.2	6.9	7.9	5.9	4.0	3.2	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.6	5.9	3.3	3.8	3.1	-0.7
Population Density:																									
Large MSA, original wording	_	3.6	3.6	3.2	6.1	8.7	10.9	8.4	4.3	4.0	3.5	6.1	5.8	4.7	4.1	5.2	5.8	5.1	5.1	3.8	_	_	_	_	_
Revised, includes "Molly'	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.2	3.5	2.3	2.6	2.1	-0.5
Other MSA, original wording	_	5.1	4.6	4.3	6.1	8.4	9.7	8.1	5.0	4.5	3.2	3.1	4.0	4.8	4.7	4.9	5.7	3.7	3.9	4.4	_	_	_	_	_
Revised, includes "Molly'	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.8	3.6	2.9	2.9	2.2	-0.7
Non-MSA, original wording	_	4.5	3.4	2.7	4.2	7.4	6.4	4.6	4.0	2.8	2.1	3.1	3.7	2.8	3.5	2.2	3.7	1.8	2.6	1.6	_	_	_	_	_
Revised, includes "Molly'	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.8	3.9	2.6	1.9	2.2	+0.3
Parental Education: a																									
1.0-2.0 (Low), original wording	_	5.5	3.5	4.2	6.8	7.3	3.8	4.8	4.1	4.6	3.0	3.8	4.7	4.0	6.2	3.8	6.3	3.7	5.3	2.3	_	_	_	_	_
Revised, includes "Molly'	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.4	3.4	2.9	3.3	1.7	-1.6 s
2.5-3.0, original wording	_	5.0	3.1	3.2	5.1	7.7	10.3	8.0	3.8	3.7	3.9	3.6	4.9	4.0	2.5	4.9	5.5	3.5	3.8	3.2	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.1	3.9	2.7	3.1	2.7	-0.4
3.5–4.0, original wording	_	4.9	3.8	3.2	5.7	6.2	8.4	7.5	5.7	4.6	2.8	3.9	4.4	5.3	4.6	4.7	5.0	4.1	4.1	3.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.2	4.3	2.4	2.5	2.0	-0.4
4.5–5.0, original wording	_	4.0	2.9	4.3	6.2	8.3	11.2	7.3	5.0	3.8	3.2	5.1	4.1	3.6	4.9	4.2	5.7	3.9	3.2	4.7	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.9	3.1	2.5	2.1	2.0	-0.1
5.5–6.0 (High), original wording	_	4.1	8.7	3.5	4.7	10.6	8.1	7.6	3.3	3.1	2.0	3.6	4.6	4.1	4.0	4.3	4.4	3.6	5.9	3.3	_	_	_	_	_
Revised, includes "Molly'	_									_					_			_		6.7	3.7	2.9	2.4	2.5	+0.1

TABLE 36 (cont.)

MDMA (ECSTASY, MOLLY): Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

										Pe	rcentage	who use	ed in last	12 mon	ths										2017-
•	1975-																								2018
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Race/Ethnicity (2-year average): b																									
White, original wording	_	_	5.2	4.7	5.1	7.6	9.6	8.5	6.4	4.7	3.9	4.0	4.9	4.8	4.6	4.5	5.1	4.9	4.0	3.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.0	3.3	2.7	2.6	-0.1
African American, original wording	_	_	0.4	0.4	0.5	1.3	2.4	1.7	1.4	1.6	1.4	1.8	2.1	2.2	2.4	2.6	2.4	1.5	1.1	1.7	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.3	2.2	1.6	0.9	-0.6 s
Hispanic, original wording	_	_	2.8	2.7	6.0	10.6	10.2	7.0	5.3	3.7	3.0	3.0	3.3	3.2	3.9	4.6	4.4	4.5	4.5	3.9	_	_	_	_	_
Revised, includes "Molly"	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.8	2.8	2.2	2.1	-0.2

Notes. Le

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .01. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms in 1996–2001; N is one sixth of N indicated in Table S3. Data based on two of six forms beginning in 2002; N is two sixths of N indicated in Table S3. Beginning in 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; N is one sixth of N indicated in 2014 and three sixths of N indicated beginning in 2015.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

b To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. Two year race data for the 2014 "Original wording" are based on the 2013 and 2014 unchanged forms only. Two year race data for the 2015 "Revised wording" which includes "Molly" are based on the 2014 "Revised wording" data triple weighted and the 2015 "Revised wording" data. Beginning in 2016 two year race data based only on "Revised wording" data.

TABLE 37
SALVIA: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

				Percentag	ge who us	ed in last	12 months	;			
•											2017-
	2000	2040	0044	2042	2042	004.4	2045	2046	2047	2040	2018
Approximate weighted N =	2009 15,000	2010 15,300	2011 16,000	2012 15.100	2013 14,600	2014 14.600	2015 14,400	2016 16,900	2017 15,300	2018 14.000	change
Total	15,000	1.7	1.6	1.4	1.2	0.6	0.7	0.9	0.4	0.6	+0.2
Gender:	_	1.7	1.0	1.4	1.2	0.6	0.7	0.9	0.4	0.6	+0.2
Male	_	2.6	2.0	1.4	1.6	0.6	0.7	1.2	0.5	1.0	+0.5
Female		1.0	1.1	1.1	0.9	0.6	0.6	0.7	0.3	0.3	+0.3
College Plans:		1.0	1.1		0.3	0.0	0.0	0.7	0.2	0.5	70.1
None or under 4 years	_	4.4	5.4	5.2	4.2	2.7	1.7	5.5	1.4	2.0	+0.6
Complete 4 years		1.4	1.3	1.1	1.0	0.4	0.6	0.5	0.2	0.4	+0.2
Region:			1.0		1.0	0.4	0.0	0.0	0.2	0.4	10.2
Northeast	_	1.9	1.8	0.5	0.8	0.8	0.5	0.7	0.1	0.5	+0.4
Midwest	_	1.6	1.1	0.4	0.3	0.2	0.5	0.5	0.2	0.2	-0.1
South	_	1.4	1.5	2.4	1.1	0.8	0.8	1.4	0.5	0.9	+0.4
West	_	2.4	2.1	1.2	2.6	0.5	0.7	0.7	0.5	0.8	+0.4
Population Density:											
Large MSA	_	2.0	1.3	1.9	1.4	0.5	0.7	0.9	0.3	1.0	+0.7
Other MSA	_	1.6	2.1	1.3	1.1	0.8	0.7	1.0	0.5	0.5	0.0
Non-MSA	_	1.9	0.9	0.6	1.2	0.3	0.4	0.7	0.2	0.3	+0.1
Parental Education: a											
1.0-2.0 (Low)	_	2.3	4.7	1.4	2.3	1.0	1.3	2.2	1.3	0.9	-0.4
2.5–3.0	_	1.7	2.5	1.3	1.1	0.4	0.5	1.1	0.2	0.1	-0.1
3.5-4.0	_	0.9	1.7	1.0	1.4	0.3	0.4	1.9	0.0	0.4	+0.4
4.5–5.0	_	2.1	1.0	1.5	1.4	8.0	0.7	0.1	0.5	0.9	+0.4
5.5-6.0 (High)	_	1.5	0.2	1.4	0.5	0.7	0.2	0.5	0.4	0.3	-0.2
Race/Ethnicity (2-year average): b											
White	_	_	1.5	1.2	0.9	0.6	0.4	0.4	0.3	0.3	0.0
African American	_	_	1.4	1.5	1.4	8.0	0.6	1.1	1.2	1.3	+0.1
Hispanic	_	_	2.1	2.4	2.2	1.6	0.9	1.3	1.1	0.6	-0.5

Notes. '-' indicates data not available. See Table S1 for the number of subgroup cases. See appendix B for definition of variables

in table. Data for 8th graders based on one of four forms; N is one third of N indicated in Table S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup> To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase

subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 38
SALVIA: Trends in Annual Prevalence of Use by Subgroups in Grade 10

				Percentag	je who us	ed in last	12 months	;			
- -											2017-
	0000	0040	0044	0040	0040	0044	2015	0040	0047	0040	2018
	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	change
Approximate weighted N =	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	3.7	3.9	2.5	2.3	1.8	1.2	0.9	0.9	0.7	-0.2
Gender:		- 4	<b>5</b> 0	0.7	0.4	0.0	4.0	4.0	4.0	0.0	0.0
Male	_	5.4	5.0	3.7	3.4	2.2	1.8	1.3	1.0	0.8	-0.2
Female	_	1.9	2.7	1.4	1.3	1.4	0.5	0.5	8.0	0.6	-0.2
College Plans:											
None or under 4 years	_	8.1	12.1	8.2	5.4	5.7	3.8	1.9	1.4	1.4	0.0
Complete 4 years	_	3.2	2.9	1.9	2.0	1.3	0.9	8.0	8.0	0.6	-0.3
Region:											
Northeast	_	2.8	5.0	3.6	2.6	1.4	1.5	0.9	0.3	1.0	+0.7
Midwest	_	3.1	3.4	1.3	0.9	1.3	0.7	1.0	0.9	0.6	-0.3
South	_	4.0	3.4	2.0	1.8	1.9	1.0	0.7	0.7	0.3	-0.3
West	_	4.7	4.2	3.8	4.1	2.6	1.7	1.3	1.7	1.4	-0.2
Population Density:											
Large MSA	_	4.3	3.8	2.3	2.5	2.1	1.1	1.0	1.1	1.0	-0.1
Other MSA	_	3.3	3.8	2.6	2.1	1.4	1.2	0.7	0.7	0.7	0.0
Non-MSA	_	3.7	4.1	2.7	2.6	2.4	1.3	1.3	1.1	0.4	-0.7
Parental Education: a											
1.0–2.0 (Low)	_	5.8	2.6	3.6	3.3	1.6	1.6	8.0	1.9	2.3	+0.5
2.5–3.0	_	4.4	5.1	3.3	3.0	1.8	1.8	1.4	0.9	0.4	-0.4
3.5-4.0	_	3.6	4.6	2.2	2.1	2.3	1.1	8.0	0.9	0.5	-0.4
4.5–5.0	_	2.7	3.3	2.0	2.3	1.6	1.0	0.7	1.0	0.6	-0.5
5.5-6.0 (High)	_	4.0	2.8	2.5	1.2	1.3	0.6	0.6	0.3	0.3	-0.1
Race/Ethnicity (2-year average): b											
White	_	_	3.9	3.4	2.3	2.1	1.6	1.0	0.8	0.6	-0.3 s
African American	_	_	1.6	0.7	1.3	1.3	1.7	1.2	0.7	0.7	0.0
Hispanic	_	_	4.7	4.0	2.8	1.6	0.8	1.1	1.2	1.2	+0.0

Notes. '—' indicates data not available. See Table S2 for the number of subgroup cases. See appendix B for definition of variables

in table. Data for 10th graders based on one of four forms; N is one third of N indicated in Table S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup> To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase

subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 39
SALVIA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

				Percentag	ge who us	ed in last	12 months	;			
•											2017-
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018 change
Approximate weighted N =	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	5.7	5.5	5.9	4.4	3.4	1.8	1.9	1.8	1.5	0.9	-0.6
Gender:											
Male	9.3	8.5	8.6	5.6	5.0	2.3	2.4	2.2	1.0	1.0	0.0
Female	2.3	2.5	3.3	3.0	1.8	1.0	1.0	0.9	1.6	0.4	-1.1 s
College Plans:											
None or under 4 years	7.4	9.2	11.4	5.9	6.7	3.4	3.0	3.6	2.9	1.4	-1.5
Complete 4 years	5.2	4.7	4.8	3.9	2.5	1.4	1.4	1.2	1.1	0.5	-0.6
Region:											
Northeast	7.1	6.2	6.0	5.3	3.9	2.9	1.3	1.8	2.8	2.3	-0.5
Midwest	5.0	5.0	3.1	2.6	1.3	1.5	1.3	1.0	1.6	0.4	-1.1
South	4.8	5.3	5.2	3.8	3.6	1.7	1.4	1.6	1.2	1.2	0.0
West	6.9	6.1	9.9	6.5	5.2	1.5	3.5	2.8	1.3	0.2	-1.2 s
Population Density:											
Large MSA	7.8	6.7	7.0	5.0	2.8	2.3	2.0	1.4	1.7	1.3	-0.4
Other MSA	5.0	5.5	6.1	4.7	4.2	1.9	1.4	2.6	1.2	0.4	-0.8 s
Non-MSA	4.6	4.1	4.1	2.9	2.5	1.0	2.7	0.6	1.9	1.3	-0.7
Parental Education: a											
1.0-2.0 (Low)	5.8	5.4	6.3	8.3	7.1	1.9	2.5	4.5	1.0	1.1	+0.1
2.5-3.0	4.6	4.4	5.3	3.7	4.1	1.9	1.6	1.2	1.8	0.9	-0.8
3.5-4.0	6.2	6.0	6.6	3.5	3.1	1.6	2.1	1.1	2.8	1.5	-1.3
4.5-5.0	5.5	5.6	5.4	4.6	2.6	1.7	1.0	1.6	0.5	0.6	0.0
5.5-6.0 (High)	7.0	6.7	6.0	4.2	2.3	1.9	1.7	1.6	0.2	0.1	-0.1
Race/Ethnicity (2-year average): b											
White	_	6.3	6.2	5.3	3.8	2.5	1.7	1.5	1.6	1.4	-0.2
African American	_	2.5	2.5	2.8	2.6	1.7	1.6	1.9	1.8	0.9	-0.9
Hispanic	_	4.4	4.6	5.6	4.8	2.0	1.0	1.8	1.6	1.4	-0.2

Votes. '- ' indicates data not available. See Table S3 for the number of subgroup cases. See appendix B for definition of variables

in table Data for 12th graders based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup> To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase

subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 40
COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

						Percer	ntage wh	o used ir	n last 12	months					
Approximate weighted N =	<u>1991</u> 17,500	1992 18,600	1993 18,300	1994 17,300	<u>1995</u> 17,500	<u>1996</u> 17,800	1997 18,600	1998 18,100	1999 16,700	2000 16,700	2001 16,200	2002 15,100	2003 16,500	2004 17,000	2005 16,800
Total	1.1	1.5	1.7	2.1	2.6	3.0	2.8	3.1	2.7	2.6	2.5	2.3	2.2	2.0	2.2
Gender:															
Male	1.4	1.5	1.9	2.1	2.5	2.7	3.1	2.9	2.8	2.6	2.4	2.2	1.9	1.7	2.0
Female	0.9	1.5	1.5	2.1	2.6	3.1	2.5	3.1	2.7	2.6	2.6	2.3	2.3	2.3	2.3
College Plans:															
None or under 4 years	3.2	4.8	5.4	6.6	7.0	7.9	7.5	9.4	8.1	7.5	7.0	7.2	7.1	6.8	6.1
Complete 4 years	0.8	1.0	1.1	1.5	2.0	2.2	2.2	2.3	2.0	2.0	2.0	1.8	1.6	1.5	1.8
Region:															
Northeast	1.3	8.0	1.0	2.2	2.2	2.6	2.4	1.9	2.2	1.6	1.9	1.6	1.6	1.9	1.8
Midwest	0.9	1.4	1.0	1.2	2.6	2.9	2.6	2.7	2.6	2.9	2.3	2.3	2.0	1.6	2.0
South	1.1	1.7	2.1	2.5	2.4	2.7	2.6	3.8	3.1	2.2	3.2	2.6	2.5	2.1	2.4
West	1.5	2.0	2.7	2.3	3.3	3.7	3.7	3.3	2.7	3.7	2.4	2.4	2.3	2.4	2.4
Population Density:															
Large MSA	1.1	1.4	1.3	1.9	2.4	2.8	2.4	2.3	2.1	2.3	2.1	2.0	1.7	2.2	2.2
Other MSA	1.1	1.7	2.2	2.5	2.8	3.2	2.9	3.3	2.8	2.5	2.8	2.3	2.2	2.1	2.2
Non-MSA	1.2	1.3	1.2	1.4	2.4	2.7	3.0	3.4	3.2	3.1	2.5	2.6	2.7	1.7	2.2
Parental Education: a															
1.0-2.0 (Low)	2.4	3.2	2.9	3.5	4.9	3.9	4.7	6.3	5.6	5.3	4.4	3.7	4.1	3.3	4.2
2.5-3.0	1.4	1.6	2.0	2.3	2.4	3.3	3.0	3.3	3.1	2.9	2.8	2.8	2.4	2.5	2.9
3.5-4.0	0.7	1.2	1.8	2.1	2.8	3.3	2.8	3.1	2.8	2.5	2.4	2.2	2.2	2.0	2.5
4.5-5.0	0.7	1.0	1.0	1.6	1.9	2.7	2.6	2.2	1.7	1.8	2.1	2.0	1.5	1.8	1.5
5.5–6.0 (High) Race/Ethnicity (2-year average): b	1.2	1.5	1.1	1.9	2.5	2.5	2.3	2.5	2.5	2.2	1.6	1.5	2.0	1.2	1.2
White	_	1.2	1.3	1.6	2.3	2.8	3.0	2.8	2.6	2.5	2.5	2.4	2.2	1.9	1.8
African American		0.7	0.7	0.7	0.6	0.6	0.5	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.0
Hispanic	_	3.1	4.0	4.5	4.7	4.8	4.3	5.2	5.9	4.7	4.2	4.1	3.8	3.6	3.6

TABLE 40 (cont.)

COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

					Percen	tage who	o used ir	last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14.600	14.600	14.400	16,900	15,300	14.000	change
Total	2.0	2.0	1.8	1.6	1.6	1.4	1.2	1.0	1.0	0.9	0.8	0.8	0.8	0.0
Gender:														
Male	1.9	1.7	1.8	1.4	1.5	1.3	1.1	1.0	0.9	0.9	0.8	0.7	0.8	+0.1
Female	2.1	2.2	1.8	1.7	1.7	1.3	1.2	1.0	1.1	0.8	0.7	0.8	0.6	-0.2
College Plans:														
None or under 4 years	7.1	6.5	6.9	6.4	5.6	5.5	4.6	3.4	3.0	2.5	2.3	2.6	2.4	-0.2
Complete 4 years	1.5	1.5	1.3	1.2	1.3	1.1	0.9	0.8	0.8	0.8	0.6	0.5	0.5	0.0
Region:														
Northeast	1.3	1.2	1.2	1.4	1.0	0.9	1.1	8.0	0.5	0.6	0.5	0.5	0.5	0.0
Midwest	1.3	1.6	1.9	1.8	2.0	1.3	0.6	0.8	0.8	0.8	0.6	0.6	0.5	-0.2
South	2.9	2.3	2.2	1.2	1.6	1.3	1.4	1.0	1.3	1.0	1.0	0.6	0.7	0.0
West	1.9	2.2	1.6	2.1	1.7	2.1	1.4	1.3	1.3	1.1	0.9	1.3	1.4	+0.1
Population Density:														
Large MSA	1.9	1.9	2.0	1.1	1.4	1.5	1.3	1.0	1.2	1.0	8.0	0.7	8.0	+0.1
Other MSA	2.0	2.1	1.7	1.9	1.8	1.5	1.2	1.0	1.0	1.1	0.7	0.9	0.7	-0.1
Non-MSA	2.2	1.8	1.7	1.4	1.5	1.2	0.9	8.0	1.0	0.4	1.0	0.5	0.7	+0.2
Parental Education: a														
1.0-2.0 (Low)	4.4	3.8	3.6	3.9	3.3	2.6	2.6	2.1	1.8	1.2	1.8	1.3	1.7	+0.3
2.5-3.0	2.2	2.2	2.3	1.8	2.0	2.1	1.6	1.1	1.1	0.9	0.8	1.1	0.8	-0.3
3.5-4.0	2.0	1.8	1.8	1.5	1.6	1.6	1.2	0.9	1.1	0.8	0.8	0.8	0.7	-0.1
4.5-5.0	1.4	1.4	1.2	0.8	1.2	0.9	0.5	0.7	0.9	0.6	0.6	0.5	0.7	+0.3
5.5-6.0 (High)	1.5	1.3	1.4	1.5	1.2	8.0	0.7	8.0	0.6	1.0	0.5	0.3	0.4	0.0
Race/Ethnicity (2-year average): b														
White	1.9	1.7	1.6	1.5	1.4	1.3	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.0
African American	0.9	0.9	0.8	0.8	0.7	0.5	0.6	8.0	8.0	0.7	0.6	1.1	1.2	+0.1
Hispanic	3.5	3.8	3.5	2.8	2.8	2.9	2.6	1.8	1.4	1.3	1.2	1.7	1.8	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 41
COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percer	itage wh	o used ir	n last 12	months					
	<u>1991</u>	<u>1992</u>	1993	1994	1995	1996	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	<u>2005</u>
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	2.2	1.9	2.1	2.8	3.5	4.2	4.7	4.7	4.9	4.4	3.6	4.0	3.3	3.7	3.5
Gender:															
Male	2.2	2.0	2.5	3.1	3.5	4.5	4.7	4.9	5.2	4.7	3.8	4.2	3.3	3.9	3.6
Female	2.2	1.7	1.6	2.5	3.3	4.0	4.6	4.4	4.6	4.1	3.2	3.9	3.2	3.4	3.3
College Plans:															
None or under 4 years	4.7	4.0	5.1	6.6	7.2	10.0	10.4	10.7	11.6	9.7	9.1	10.1	8.3	9.4	8.8
Complete 4 years	1.7	1.4	1.4	2.0	2.8	3.2	3.7	3.6	3.8	3.5	2.7	3.1	2.4	2.9	2.8
Region:															
Northeast	1.5	1.0	2.0	2.4	2.5	3.0	3.0	4.9	4.6	3.1	2.3	2.4	3.1	3.4	3.6
Midwest	1.7	1.7	1.4	2.2	2.9	4.1	4.0	3.7	4.4	4.6	3.4	3.6	2.7	3.2	3.4
South	2.0	1.8	1.9	2.6	3.5	4.2	5.4	4.3	5.2	4.2	3.8	3.8	3.5	3.5	2.9
West	3.6	3.2	3.7	4.7	5.3	5.9	6.4	6.4	5.3	5.7	4.9	6.5	3.7	4.8	4.4
Population Density:															
Large MSA	1.9	1.6	1.6	2.3	3.4	3.8	4.5	4.3	4.1	4.3	3.2	3.6	2.5	3.3	3.3
Other MSA	2.7	2.1	2.3	3.1	3.5	4.7	4.3	4.7	5.1	4.2	3.7	4.4	3.2	3.8	3.4
Non-MSA	1.6	1.7	2.1	2.7	3.6	3.7	5.7	5.2	5.4	4.7	3.8	3.8	4.6	3.9	3.8
Parental Education: a															
1.0-2.0 (Low)	3.3	3.5	3.2	3.8	5.3	7.4	6.3	8.1	8.2	7.7	5.6	7.9	7.0	6.5	5.3
2.5–3.0	2.4	1.7	2.2	2.9	4.3	4.5	5.0	5.5	5.9	5.4	5.2	4.8	3.9	4.2	4.6
3.5-4.0	2.4	2.1	2.5	3.2	3.7	4.3	5.4	4.4	4.7	4.4	2.9	3.8	3.4	4.0	3.4
4.5–5.0	1.6	1.4	1.6	2.1	2.6	3.4	3.7	3.5	3.9	3.2	2.7	2.4	2.2	3.0	2.8
5.5-6.0 (High)	1.9	1.5	1.1	1.9	1.9	3.4	3.3	3.2	3.9	2.9	2.0	3.2	1.6	1.8	2.4
Race/Ethnicity (2-year average): b															
White	_	2.1	2.0	2.2	3.0	3.8	4.4	4.7	4.9	4.7	3.9	3.9	3.9	3.7	3.7
African American	_	0.6	0.6	1.0	0.9	0.7	0.8	1.0	0.9	0.6	0.8	1.0	0.9	0.8	1.0
Hispanic	_	3.7	3.7	4.9	5.5	7.0	8.5	8.3	8.2	8.0	6.6	6.0	6.1	5.8	6.4

TABLE 41 (cont.)

COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percer	itage wh	o used ir	n last 12	months					
•	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	<u></u>
Total	3.2	3.4	3.0	2.7	2.2	1.9	2.0	1.9	1.5	1.8	1.3	1.4	1.5	+0.2
Gender:														
Male	3.2	3.6	3.0	2.8	2.7	2.3	2.3	2.5	1.8	1.9	1.5	1.7	1.8	+0.1
Female	3.1	3.3	2.8	2.4	1.6	1.4	1.6	1.3	1.0	1.7	1.0	1.0	1.3	+0.3
College Plans:														
None or under 4 years	9.0	8.6	8.7	8.5	7.2	5.5	6.8	4.1	4.8	4.3	4.0	3.8	3.8	0.0
Complete 4 years	2.4	2.8	2.2	2.0	1.6	1.5	1.5	1.6	1.1	1.6	0.9	1.1	1.2	+0.2
Region:														
Northeast	2.5	2.9	2.0	2.4	2.0	2.0	1.3	1.2	1.2	1.7	0.8	0.9	1.0	+0.1
Midwest	3.2	3.6	2.5	2.4	1.8	1.3	1.4	1.3	1.3	1.2	1.0	1.4	1.1	-0.2
South	3.2	3.5	3.5	2.4	1.9	1.9	2.2	2.0	1.5	1.8	1.4	1.3	2.1	+0.9
West	3.8	3.6	3.3	3.6	3.3	2.4	2.7	2.7	1.7	2.5	1.6	1.8	1.4	-0.4
Population Density:														
Large MSA	2.8	3.3	2.8	2.4	2.1	1.9	2.1	1.8	1.2	1.7	1.3	1.8	1.4	-0.4
Other MSA	3.2	3.4	3.3	3.1	2.3	2.0	1.7	2.1	1.3	1.7	1.2	1.3	1.9	+0.6
Non-MSA	3.8	3.7	2.4	2.2	2.1	1.6	2.2	1.3	2.2	2.1	1.4	0.9	1.0	+0.1
Parental Education: a														
1.0-2.0 (Low)	6.5	6.4	6.8	6.0	4.4	3.4	5.3	3.1	2.7	3.9	1.4	2.0	2.5	+0.5
2.5–3.0	4.1	3.9	3.5	3.3	2.5	2.0	2.3	2.4	1.5	2.3	1.9	1.9	1.8	-0.1
3.5-4.0	2.9	3.5	2.7	2.7	1.9	1.9	1.6	1.6	1.8	1.9	1.0	1.1	1.7	+0.6
4.5–5.0	2.0	2.5	2.2	1.6	1.8	1.4	1.5	1.4	0.8	1.1	1.1	1.0	1.0	0.0
5.5-6.0 (High)	3.0	2.5	1.6	2.0	1.4	1.3	1.2	1.6	1.1	1.2	8.0	1.2	1.5	+0.3
Race/Ethnicity (2-year average): b														
White	3.5	3.5	3.2	2.6	2.1	1.7	1.6	1.6	1.5	1.5	1.5	1.3	1.3	0.0
African American	1.0	8.0	0.8	0.9	0.9	0.7	1.3	1.6	0.9	1.0	0.8	0.7	0.6	-0.1
Hispanic	5.9	4.9	5.2	5.2	4.6	4.1	3.8	3.7	2.8	2.2	1.9	1.5	2.3	+0.8

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 42
COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months															
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	5.6	6.0	7.2	9.0	12.0	12.3	12.4	11.5	11.4	11.6	13.1	12.7	10.3	7.9	6.5	5.3
Gender:																
Male	7.5	7.5	9.3	11.4	14.6	14.8	13.8	13.1	13.2	13.8	14.8	14.3	11.3	9.1	8.1	6.6
Female	3.9	4.4	4.9	6.5	9.3	9.8	10.4	9.6	9.3	9.1	11.2	10.9	9.2	6.5	4.9	3.8
College Plans:																
None or under 4 years	_	6.6	8.1	9.5	13.7	13.2	12.4	12.5	12.2	13.2	14.7	15.7	12.4	9.7	9.3	7.8
Complete 4 years	_	5.0	5.5	7.7	9.5	10.8	11.5	9.9	9.9	9.7	11.4	10.4	9.0	6.7	5.3	4.1
Region:																
Northeast	5.3	6.6	7.9	11.8	13.8	14.2	16.8	16.9	15.2	19.5	20.8	17.9	13.3	9.1	7.3	6.5
Midwest	5.1	5.5	6.3	8.5	10.5	10.9	9.4	9.0	8.0	5.8	8.2	10.1	7.5	6.1	5.3	4.1
South	5.4	5.1	6.0	6.8	8.5	7.8	6.8	6.3	7.7	7.7	7.5	7.1	7.0	6.2	6.0	4.8
West	7.8	7.9	10.2	10.7	18.6	20.6	22.1	17.9	19.2	19.3	19.7	20.0	16.4	12.1	8.5	6.6
Population Density:																
Large MSA	7.3	8.6	8.6	12.3	16.6	18.7	17.5	17.2	16.9	16.8	18.8	18.8	12.9	9.3	6.4	5.6
Other MSA	5.9	5.8	7.3	8.9	11.7	11.3	11.5	10.1	11.2	11.0	12.4	12.0	10.1	8.5	7.1	5.4
Non-MSA	4.3	4.3	5.8	6.4	8.9	8.9	9.4	8.5	7.3	8.3	9.2	9.0	8.1	5.3	5.4	4.8
Parental Education: a																
1.0-2.0 (Low)	4.5	5.3	5.5	6.3	8.4	9.0	8.3	7.6	9.0	9.4	12.0	10.5	8.7	7.6	6.7	4.7
2.5–3.0	4.6	6.1	6.8	8.7	11.1	11.2	10.5	11.0	9.8	10.9	12.7	12.9	9.9	7.4	6.4	5.6
3.5–4.0	4.5	5.9	7.2	9.0	13.2	13.3	13.3	12.5	11.7	12.2	14.0	13.6	11.2	7.2	6.4	5.6
4.5–5.0	6.3	7.6	8.1	10.4	14.0	13.6	14.9	13.6	13.1	12.2	13.7	12.2	10.0	8.7	7.1	4.4
5.5-6.0 (High)	5.2	7.1	9.5	11.6	15.2	16.3	16.2	13.8	15.1	13.4	11.9	12.5	10.8	8.1	5.8	5.5
Race/Ethnicity (2-year average): b																
White	_	_	6.5	8.3	10.9	12.8	13.0	12.6	11.8	11.9	13.0	13.5	12.0	9.6	7.6	6.3
African American	_	_	4.8	4.6	4.6	5.2	4.8	5.2	7.2	6.3	5.3	5.8	4.8	3.8	2.9	1.7
Hispanic	_	_	7.2	7.5	8.9	11.2	12.4	12.1	11.4	13.3	16.3	16.7	14.0	9.9	7.8	7.4

TABLE 42 (cont.)

COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months														
Approximate weighted N =	<u>1991</u>	<u>1992</u> 15,800	1993 16.300	<u>1994</u> 15.400	<u>1995</u> 15.400	1996 14,300	<u>1997</u> 15,400	1998 15,200	<u>1999</u> 13.600	2000 12.800	2001 12.800	2002 12.900	2003 14.600	2004 14.600	2005 14,700
Total	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	6.2	5.0	4.8	5.0	4.8	5.3	5.1
Gender:		•						•							
Male	4.1	3.7	4.0	4.5	4.8	6.0	6.6	6.8	7.3	5.8	5.4	5.9	5.9	6.5	5.8
Female	2.6	2.4	2.3	2.8	3.1	3.5	4.2	4.5	5.0	3.9	4.1	4.0	3.7	4.1	4.2
College Plans:															
None or under 4 years	4.9	5.1	4.5	5.3	5.6	7.5	8.1	9.7	9.1	7.1	8.2	8.6	6.0	8.3	7.5
Complete 4 years	2.8	2.4	2.8	3.0	3.4	4.0	4.4	4.5	5.4	4.2	3.7	3.9	4.2	4.3	4.4
Region:															
Northeast	3.8	2.8	3.1	3.1	3.8	5.5	6.6	5.9	4.3	4.1	4.8	5.0	5.2	5.0	4.7
Midwest	3.2	2.5	2.4	3.7	3.4	3.8	4.7	5.8	6.2	4.8	5.7	5.2	3.9	4.2	5.0
South	3.0	3.2	3.1	3.4	3.6	4.6	4.8	5.8	6.9	4.7	3.9	5.0	4.7	5.4	5.3
West	4.4	4.3	4.9	4.5	5.8	6.1	6.8	5.4	6.9	6.3	5.0	4.6	5.8	7.0	5.0
Population Density:															
Large MSA	4.1	3.6	2.7	3.3	4.4	4.8	4.7	5.4	5.0	4.1	4.3	4.1	3.8	4.7	5.2
Other MSA	3.7	3.3	3.9	4.1	3.9	4.9	5.6	5.8	6.6	4.9	5.0	5.4	5.7	5.8	5.2
Non-MSA	2.5	2.4	2.7	3.2	3.9	4.9	6.0	6.0	6.9	6.1	5.2	5.3	4.6	5.0	4.7
Parental Education: a															
1.0–2.0 (Low)	3.5	3.9	3.5	4.1	4.8	5.3	6.5	6.9	9.0	6.2	5.7	6.6	4.8	7.3	4.3
2.5–3.0	3.8	3.3	3.0	4.0	3.9	5.0	5.5	6.3	6.0	4.6	6.0	5.3	4.1	5.2	6.6
3.5–4.0	3.7	3.0	3.8	3.8	4.2	5.0	5.6	6.0	6.8	5.0	4.8	5.3	5.2	5.3	5.2
4.5–5.0	3.1	2.9	3.0	3.1	3.7	4.8	5.2	5.0	5.4	5.3	4.4	4.2	4.7	5.2	4.3
5.5–6.0 (High)	2.4	2.6	2.4	3.3	3.4	4.3	4.4	4.4	5.2	3.9	2.6	4.3	4.4	4.3	4.1
Race/Ethnicity (2-year average): <sup>b</sup>															
White	4.6	3.3	3.1	3.5	4.0	4.5	5.5	6.3	6.7	6.2	5.5	5.7	5.6	5.6	5.6
African American	1.5	1.2	8.0	0.9	1.0	8.0	0.9	0.9	0.9	1.0	1.0	0.9	1.1	1.2	1.2
Hispanic	6.1	5.2	5.8	5.4	5.5	7.3	7.6	6.7	7.5	76	6.1	5.5	49	5.5	6.2

TABLE 42 (cont.)

COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months													
	0000	0007	0000	0000	0040	0044	0040	0040	004.4	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 14 200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11.800	2017 12.600	2018 13,300	<u>change</u>
Total	5.7	5.2	4.4	3.4	2.9	2.9	2.7	2.6	2.6	2.5	2.3	2.7	2.3	-0.4
Gender:	0.7	0.2		0.1	2.0	2.0		2.0	2.0	2.0	2.0	2	2.0	0.1
Male	6.0	5.9	5.2	4.1	4.0	3.6	3.3	3.4	3.5	3.3	3.0	3.7	2.8	-0.8
Female	5.2	4.4	3.5	2.7	1.9	2.1	2.0	1.7	1.6	1.7	1.5	1.9	1.4	-0.5
College Plans:														
None or under 4 years	8.1	8.8	7.4	5.4	5.2	5.4	4.2	5.1	3.9	4.4	3.2	4.5	4.0	-0.6
Complete 4 years	5.1	4.4	3.6	2.8	2.4	2.3	2.3	1.9	2.2	2.1	1.9	2.2	1.8	-0.5
Region:														
Northeast	6.7	6.0	4.5	2.8	3.3	2.8	2.1	2.7	2.5	2.3	1.6	2.6	2.3	-0.3
Midwest	4.2	5.0	3.2	3.6	2.4	2.9	2.2	1.9	2.3	1.8	1.9	2.0	2.0	0.0
South	6.4	5.2	4.8	3.2	2.5	2.6	2.5	2.2	2.7	2.0	1.7	2.5	1.7	-0.8
West	5.5	4.8	4.9	3.9	4.0	3.3	4.1	4.0	2.7	4.4	4.0	3.9	3.5	-0.4
Population Density:														
Large MSA	7.4	5.0	4.4	3.4	3.3	2.9	2.9	2.6	2.3	3.0	2.4	3.0	2.3	-0.6
Other MSA	4.8	5.4	4.3	3.3	3.1	2.9	2.9	3.0	3.1	2.3	2.4	2.9	2.2	-0.7
Non-MSA	4.9	5.3	4.5	3.6	1.9	2.7	2.1	1.9	1.7	2.4	1.7	2.0	2.5	+0.5
Parental Education: a														
1.0-2.0 (Low)	6.1	6.2	4.7	4.1	3.2	4.2	3.0	4.2	3.0	4.0	2.7	3.2	3.3	+0.1
2.5–3.0	6.3	5.9	4.0	3.6	3.2	2.6	3.1	2.9	3.1	2.6	2.1	3.1	2.8	-0.3
3.5-4.0	5.7	5.5	4.9	3.4	3.0	3.0	2.6	3.0	2.4	2.3	2.0	2.8	1.7	-1.1 s
4.5–5.0	5.1	4.9	4.0	3.2	2.5	2.3	2.6	1.6	2.2	2.2	2.2	2.0	2.0	+0.1
5.5-6.0 (High)	5.7	4.0	4.1	2.5	2.4	3.0	2.4	2.1	2.6	2.2	2.4	2.7	1.9	-0.9
Race/Ethnicity (2-year average): b														
White	5.8	6.1	5.6	4.4	3.4	3.1	3.1	2.6	2.3	2.3	2.2	2.6	2.7	+0.1
African American	1.6	1.3	8.0	0.7	0.9	1.1	0.9	0.9	1.6	1.5	0.9	8.0	8.0	-0.1
Hispanic	6.5	6.0	4.7	4.0	3.5	3.3	3.4	3.8	3.6	3.4	3.6	3.2	2.9	-0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 43

CRACK: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

	Percentage who used in last 12 months														
Approximate weighted N =	<u>1991</u> 17,500	<u>1992</u> 18,600	1993 18,300	<u>1994</u> 17,300	<u>1995</u> 17,500	<u>1996</u> 17,800	<u>1997</u> 18,600	<u>1998</u> 18,100	1999 16,700	2000 16,700	2001 16,200	2002 15,100	2003 16,500	2004 17,000	2005 16,800
Total	0.7	0.9	1.0	1.3	1.6	1.8	1.7	2.1	1.8	1.8	1.7	1.6	1.6	1.3	1.4
Gender:															
Male	0.8	0.9	1.1	1.3	1.5	1.7	1.8	2.1	1.8	1.7	1.6	1.6	1.3	1.1	1.3
Female	0.5	0.9	0.9	1.2	1.6	1.9	1.5	2.1	1.8	1.8	1.8	1.6	1.7	1.5	1.5
College Plans:															
None or under 4 years	2.0	2.9	3.4	4.6	4.2	4.9	4.7	7.5	5.3	5.2	4.4	5.7	5.8	4.9	3.3
Complete 4 years	0.4	0.6	0.6	0.8	1.3	1.3	1.3	1.5	1.4	1.4	1.4	1.2	1.1	1.0	1.2
Region:															
Northeast	0.5	0.4	0.4	1.4	1.4	1.7	1.6	1.2	1.5	1.2	1.2	1.2	1.3	1.2	0.9
Midwest	0.6	1.0	0.8	0.9	1.4	1.9	1.6	1.9	1.9	1.9	1.7	1.5	1.3	1.2	1.4
South	0.7	1.0	1.2	1.6	1.4	1.7	1.4	2.5	1.9	1.4	2.0	1.7	1.8	1.3	1.5
West	0.8	1.3	1.4	1.3	2.3	2.1	2.3	2.6	1.8	2.9	1.7	2.0	1.8	1.8	1.6
Population Density:															
Large MSA	0.5	0.8	0.7	1.3	1.5	1.8	1.5	1.6	1.2	1.6	1.4	1.5	1.2	1.5	1.5
Other MSA	0.7	1.1	1.2	1.5	1.7	2.0	1.8	2.2	2.0	1.8	1.8	1.6	1.7	1.3	1.3
Non-MSA	0.8	0.8	0.9	1.0	1.4	1.7	1.7	2.6	2.1	2.0	1.8	1.8	1.7	1.2	1.4
Parental Education: a															
1.0-2.0 (Low)	1.7	2.2	1.8	2.8	3.0	2.7	3.0	5.0	3.6	3.7	3.2	3.1	3.3	2.2	3.1
2.5-3.0	0.7	0.8	1.0	1.4	1.2	2.1	2.0	2.2	2.0	2.1	1.8	2.1	1.7	1.7	1.8
3.5-4.0	0.4	0.7	1.2	0.9	1.7	2.0	1.4	2.1	2.0	1.8	1.3	1.4	1.6	1.3	1.6
4.5-5.0	0.4	0.6	0.5	1.1	1.3	1.5	1.5	1.6	1.0	1.0	1.5	1.2	1.0	1.1	0.9
5.5-6.0 (High)	0.8	1.0	0.6	1.4	1.6	1.5	1.5	1.6	1.9	1.8	1.3	1.3	1.3	1.0	0.6
Race/Ethnicity (2-year average): b															
White	_	0.7	0.8	1.0	1.4	1.7	1.7	1.7	1.8	1.7	1.7	1.5	1.5	1.3	1.2
African American	_	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.7	0.8	8.0
Hispanic	_	1.9	2.0	2.1	2.7	3.0	2.8	3.6	3.9	2.9	2.6	2.7	2.8	2.6	2.5

TABLE 43 (cont.)

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 8

	Percentage who used in last 12 months													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14.600	14.600	14.400	16,900	15,300	14.000	change
Total	1.3	1.3	1.1	1.1	1.0	0.9	0.6	0.6	0.7	0.5	0.5	0.5	0.4	-0.1
Gender:														
Male	1.2	1.2	1.0	0.9	0.9	0.8	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.0
Female	1.3	1.5	1.2	1.2	1.1	1.0	0.7	0.7	0.8	0.6	0.5	0.6	0.4	-0.2
College Plans:														
None or under 4 years	4.4	4.1	4.3	4.8	3.2	3.5	2.8	2.2	2.2	1.6	1.6	1.9	1.3	-0.5
Complete 4 years	1.0	1.1	0.8	0.8	0.8	0.7	0.5	0.5	0.6	0.4	0.4	0.4	0.3	-0.1
Region:														
Northeast	0.9	0.8	0.8	1.0	8.0	0.5	8.0	0.6	0.3	0.4	0.2	0.4	0.2	-0.2
Midwest	0.7	1.1	1.2	1.2	1.1	0.9	0.4	0.6	0.6	0.3	0.5	0.5	0.3	-0.2
South	1.8	1.5	1.2	0.7	0.9	0.9	0.7	0.7	0.9	0.6	0.7	0.4	0.4	0.0
West	1.3	1.8	1.2	1.7	1.2	1.3	0.6	0.6	0.6	0.7	0.5	0.9	8.0	-0.1
Population Density:														
Large MSA	1.3	1.1	1.4	0.8	1.0	1.0	8.0	0.7	0.7	0.6	0.6	0.5	0.5	-0.0
Other MSA	1.1	1.6	1.0	1.3	1.1	0.9	0.6	0.6	0.7	0.6	0.5	0.6	0.4	-0.2
Non-MSA	1.6	1.2	1.0	0.9	8.0	0.9	0.4	0.6	0.7	0.3	0.6	0.3	0.4	+0.1
Parental Education: a														
1.0-2.0 (Low)	3.0	2.9	2.8	3.3	1.8	2.0	1.6	1.2	1.2	0.9	1.4	1.0	1.1	+0.1
2.5-3.0	1.5	1.4	1.6	0.9	1.1	1.4	8.0	0.7	0.9	0.7	0.6	0.7	0.4	-0.3
3.5-4.0	1.2	1.3	8.0	1.0	0.9	0.9	0.7	0.5	0.6	0.4	0.6	0.5	0.5	0.0
4.5-5.0	0.9	0.9	0.7	0.6	0.8	0.6	0.2	0.5	0.5	0.4	0.3	0.4	0.2	-0.1
5.5-6.0 (High)	1.0	1.0	0.9	1.1	0.9	0.5	0.3	0.6	0.5	0.3	0.2	0.3	0.2	-0.1
Race/Ethnicity (2-year average): b														
White	1.1	1.0	1.0	0.8	8.0	0.7	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.0
African American	0.6	0.6	0.5	0.7	0.6	0.5	0.5	0.7	0.6	0.6	0.6	0.5	0.5	-0.1
Hispanic	2.6	2.7	2.5	2.2	2.1	2.1	1.7	1.1	0.9	0.8	0.8	0.8	0.8	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 44

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 12 months														
Approximate weighted N =	<u>1991</u> 14,800	<u>1992</u> 14,800	1993 15,300	1994 15,800	1995 17,000	1996 15,600	1997 15,500	1998 15,000	1999 13,600	2000 14,300	2001 14,000	2002 14,300	2003 15,800	2004 16,400	2005 16,200
Total	0.9	0.9	1.1	1.4	1.8	2.1	2.2	2.5	2.4	2.2	1.8	2.3	1.6	1.7	1.7
Gender:															
Male	0.9	0.9	1.3	1.6	1.9	2.1	2.3	2.7	2.5	2.3	1.9	2.5	1.6	1.8	1.6
Female	0.8	0.9	0.7	1.0	1.6	2.1	2.2	2.2	2.3	2.1	1.7	2.2	1.6	1.5	1.7
College Plans:															
None or under 4 years	2.4	2.1	2.7	3.4	3.7	5.0	4.9	6.0	5.5	5.2	4.7	5.6	4.5	4.6	4.8
Complete 4 years	0.6	0.6	0.7	0.9	1.5	1.5	1.8	1.9	1.8	1.7	1.4	1.8	1.1	1.2	1.3
Region:															
Northeast	0.5	0.4	1.1	1.4	1.1	1.4	1.5	2.6	2.5	1.7	1.0	1.4	1.3	1.4	1.8
Midwest	0.9	0.9	0.8	1.0	1.5	2.2	2.1	2.1	2.1	1.8	1.8	2.2	1.4	1.5	1.4
South	1.0	0.8	0.9	1.3	1.9	2.0	2.0	1.9	2.0	1.9	1.7	1.7	1.7	1.4	1.3
West	1.1	1.4	1.7	1.9	2.8	2.8	3.8	3.9	3.2	3.8	3.3	4.4	2.0	2.6	2.5
Population Density:															
Large MSA	0.9	0.8	0.7	0.9	1.9	1.7	2.3	2.2	2.2	2.4	1.9	2.2	1.2	1.5	1.8
Other MSA	0.9	0.9	1.1	1.5	1.6	2.4	1.7	2.4	2.3	2.0	1.8	2.5	1.7	1.8	1.5
Non-MSA	0.9	0.9	1.2	1.6	2.3	1.9	3.3	3.1	2.8	2.5	1.8	2.2	2.1	1.7	1.9
Parental Education: a															
1.0-2.0 (Low)	1.3	1.7	1.8	1.9	3.0	3.9	3.4	4.5	3.4	4.8	3.0	3.9	2.9	3.5	2.6
2.5–3.0	1.0	0.8	1.0	1.1	2.4	2.5	2.4	3.1	2.9	2.9	2.5	2.6	1.8	1.9	2.5
3.5-4.0	0.9	1.0	1.4	1.5	1.7	1.9	2.6	2.0	2.5	2.2	1.4	2.2	1.6	1.6	1.4
4.5–5.0	0.7	0.6	0.7	1.0	1.3	1.4	1.8	2.0	1.9	1.1	1.6	1.4	1.3	1.4	1.3
5.5-6.0 (High)	0.7	0.9	0.5	1.1	1.1	1.8	1.2	1.8	1.8	1.4	1.2	2.2	0.8	0.8	1.0
Race/Ethnicity (2-year average): b															
White	_	0.9	0.9	1.1	1.5	1.9	2.2	2.3	2.4	2.2	1.8	2.0	2.0	1.6	1.5
African American	_	0.3	0.4	0.8	0.6	0.4	0.4	0.5	0.5	0.5	0.7	0.8	0.6	0.4	0.6
Hispanic	_	1.5	1.7	1.9	2.5	3.7	3.7	4.1	4.4	4.0	3.7	3.6	3.5	3.1	3.6

TABLE 44 (cont.)

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 12 months													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	1.3	1.3	1.3	1.2	1.0	0.9	8.0	8.0	0.5	0.7	0.4	0.6	0.6	0.0
Gender:														
Male	1.3	1.5	1.3	1.1	1.0	1.0	0.9	0.9	0.6	0.7	0.6	0.6	0.5	-0.1
Female	1.2	1.1	1.2	1.2	0.9	0.8	0.6	0.7	0.5	0.6	0.3	0.5	0.6	+0.1
College Plans:														
None or under 4 years	3.7	3.8	3.9	4.1	3.4	2.5	3.5	1.3	1.8	2.2	1.7	2.4	1.3	-1.1
Complete 4 years	1.0	1.0	0.9	0.9	0.7	0.7	0.5	8.0	0.4	0.5	0.3	0.4	0.5	+0.1
Region:														
Northeast	0.9	1.1	1.0	1.2	1.0	1.1	0.5	0.6	0.5	0.7	0.3	0.6	0.3	-0.4
Midwest	1.3	1.1	1.1	1.4	0.9	0.6	0.7	0.7	0.6	0.5	0.3	0.4	0.4	-0.1
South	1.2	1.4	1.1	8.0	0.9	8.0	0.6	8.0	0.5	0.7	0.6	0.5	0.9	+0.4
West	1.7	1.6	1.8	1.5	1.4	1.3	1.3	1.2	0.5	1.1	0.6	0.8	0.4	-0.4
Population Density:														
Large MSA	1.3	1.3	1.1	0.8	1.0	0.9	1.0	0.7	0.5	0.7	0.5	0.6	0.6	-0.1
Other MSA	1.1	1.3	1.4	1.5	1.0	1.0	0.5	1.0	0.4	0.7	0.4	0.6	0.6	0.0
Non-MSA	1.6	1.3	1.2	1.0	1.2	0.8	0.9	0.6	0.8	1.0	0.6	0.5	0.4	-0.1
Parental Education: a														
1.0–2.0 (Low)	3.9	3.8	3.3	2.5	2.5	1.6	1.9	1.5	0.4	2.1	0.5	1.0	1.0	0.0
2.5-3.0	1.6	1.6	1.3	1.6	0.9	0.9	1.0	1.0	0.6	0.8	0.7	0.9	0.5	-0.4
3.5-4.0	1.0	0.9	1.1	1.3	0.8	0.9	0.5	0.6	0.8	0.6	0.3	0.5	0.4	0.0
4.5–5.0	0.8	0.9	1.0	0.7	0.8	0.6	0.6	0.7	0.3	0.4	0.3	0.3	0.4	+0.1
5.5-6.0 (High)	1.0	0.7	0.7	0.6	0.9	0.8	0.4	0.8	0.4	0.6	0.4	0.3	0.8	+0.5
Race/Ethnicity (2-year average): b														
White	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.6	0.5	0.4	0.4	0.5	0.0
African American	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.8	0.7	0.8	0.7	0.4	0.3	-0.1
Hispanic	3.1	2.3	2.4	2.5	2.0	1.9	2.0	1.8	1.0	0.8	0.9	0.6	1.0	+0.4

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 45
CRACK: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months															
Approximate weighted N =	<u>1975</u>	<u>1976</u> —	<u>1977</u>	<u>1978</u> —	<u>1979</u> —	<u>1980</u> —	<u>1981</u>	<u>1982</u>	<u>1983</u> —	<u>1984</u> —	<u>1985</u>	<u>1986</u> 15,200	1987 16,300	1988 16,300	1989 16,700	<u>1990</u> 15,200
Total	_	_	_	_	_	_	_	_	_	_	_	4.1	3.9	3.1	3.1	1.9
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	4.2	4.6	4.0	4.3	2.3
Female	_	_	_	_	_	_	_	_	_	_	_	3.6	3.0	2.0	1.8	1.4
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	_	_	_	_	5.2	5.1	4.1	3.8	3.5
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	2.8	2.7	2.3	2.7	1.2
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	6.0	4.0	2.3	3.3	2.0
Midwest	_	_	_	_	_	_	_	_	_	_	_	3.1	3.5	2.4	2.2	1.6
South	_	_	_	_	_	_	_	_	_	_	_	1.6	2.8	2.6	3.3	1.8
West	_		_	_	_		_	_	_	_	_	7.5	6.1	5.6	3.8	2.7
Population Density:																
Large MSA	_	_	_	_	_	_	_	_	_	_	_	5.9	4.7	3.9	3.4	1.6
Other MSA	_	_	_	_	_	_	_	_	_	_	_	3.5	3.5	3.2	3.3	2.0
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	3.5	3.7	2.0	2.2	2.0
Parental Education: a																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	1.2	3.6	3.3	3.1	2.2
2.5-3.0	_	_	_	_	_	_	_	_	_	_	_	5.3	4.2	2.6	3.1	2.2
3.5-4.0	_	_	_	_	_	_	_	_	_	_	_	4.0	4.0	3.4	2.8	1.8
4.5–5.0	_	_	_	_	_	_	_	_	_	_	_	2.9	3.4	3.1	2.6	1.1
5.5-6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	3.7	2.4	2.1	3.7	1.8
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	_	_	_	_	3.8	3.4	3.1	2.1
African American	_	_	_	_	_	_	_	_	_	_	_	_	1.9	2.5	2.0	1.3
Hispanic	_	_	_	_	_	_	_	_	_	_	_	_	5.5	3.7	3.2	42

TABLE 45 (cont.)

CRACK: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

	Percentage who used in last 12 months														
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	2.7	2.2	2.1	2.3	2.2	2.3	1.9
Gender:															
Male	1.8	1.7	1.9	2.4	2.5	2.6	3.0	3.1	2.9	2.5	2.4	2.6	2.3	2.5	2.2
Female	1.0	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.2	1.7	1.8	1.8	1.9	1.9	1.6
College Plans:															
None or under 4 years	2.3	2.6	2.7	3.3	3.0	4.0	4.3	4.6	5.0	3.5	4.4	4.5	2.7	3.9	3.4
Complete 4 years	1.1	1.0	1.2	1.4	1.7	1.6	1.7	1.9	1.9	1.7	1.5	1.7	1.8	1.7	1.6
Region:															
Northeast	1.3	1.3	1.2	1.5	1.6	2.1	2.6	3.0	2.4	1.8	2.0	2.0	2.0	1.7	1.5
Midwest	1.5	1.4	1.3	2.2	2.0	2.3	2.2	2.6	2.8	2.0	2.6	2.6	1.9	2.1	2.3
South	1.2	1.2	1.5	1.6	1.7	1.7	1.8	2.0	2.3	1.8	1.2	1.9	2.0	2.2	1.8
West	1.8	2.1	2.1	2.3	3.5	2.6	3.4	3.2	3.4	3.2	3.0	2.8	3.0	3.3	2.3
Population Density:															
Large MSA	1.2	1.3	1.3	1.5	2.0	2.1	2.2	2.5	2.0	1.8	1.5	1.6	1.8	2.0	1.7
Other MSA	1.7	1.6	1.8	2.1	2.1	1.9	2.3	2.4	2.5	2.1	2.2	2.4	2.3	2.2	1.8
Non-MSA	1.2	1.3	1.4	1.9	2.1	2.5	2.8	2.9	3.6	2.8	2.8	2.8	2.4	2.8	2.5
Parental Education: a															
1.0-2.0 (Low)	1.6	1.9	2.6	2.7	3.4	3.4	3.6	3.9	3.2	2.8	3.8	4.8	2.5	3.3	2.3
2.5–3.0	1.5	1.9	1.6	2.2	2.3	2.4	2.5	2.8	2.8	2.1	2.6	2.2	1.6	2.9	2.4
3.5-4.0	1.7	1.3	1.5	1.8	1.7	2.2	2.0	2.4	3.0	2.2	1.8	2.3	2.3	1.9	2.0
4.5–5.0	0.9	1.0	1.4	1.1	1.9	1.6	2.5	2.1	2.2	1.8	1.9	1.7	2.2	1.8	1.5
5.5-6.0 (High)	1.1	8.0	1.0	1.8	1.5	1.6	1.8	2.1	1.6	2.2	1.2	1.5	1.9	1.7	1.5
Race/Ethnicity (2-year average): b															
White	1.6	1.3	1.3	1.6	1.9	2.0	2.2	2.6	2.8	2.5	2.2	2.3	2.2	2.2	2.1
African American	1.0	0.6	0.6	0.9	1.0	0.7	0.5	0.3	0.4	0.5	0.5	0.7	1.2	1.3	0.9
Hispanic	3.4	2.7	2.5	2.4	3.1	4.1	4.2	3.9	3.5	3.4	3.1	3.1	2.9	3.0	3.1

TABLE 45 (cont.)

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Percer	ntage who	o used in	last 12 r	nonths					
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	2.1	1.9	1.6	1.3	1.4	1.0	1.2	1.1	1.1	1.1	0.8	1.0	0.9	-0.1
Gender:														
Male	2.1	2.1	1.7	1.6	1.9	1.2	1.4	1.1	1.4	1.3	1.0	1.2	1.4	+0.2
Female	1.9	1.7	1.3	1.0	0.9	8.0	0.9	0.9	0.6	0.6	0.5	8.0	0.4	-0.4 s
College Plans:														
None or under 4 years	3.5	3.7	3.3	2.8	2.5	2.4	1.9	2.1	1.8	2.2	1.2	2.1	1.9	-0.2
Complete 4 years	1.7	1.5	1.1	0.9	1.2	0.7	1.0	0.7	0.9	0.7	0.7	0.7	0.6	-0.1
Region:														
Northeast	2.5	2.1	1.8	0.6	1.4	1.2	8.0	1.1	8.0	0.7	0.7	0.9	0.7	-0.2
Midwest	1.5	1.7	1.3	1.7	1.1	1.2	1.0	1.0	0.9	1.3	0.6	0.7	1.2	+0.5
South	2.1	2.2	1.6	1.2	1.4	8.0	1.1	8.0	1.0	0.9	0.5	1.1	0.9	-0.2
West	2.2	1.6	1.7	1.6	1.8	1.2	1.9	1.6	1.6	1.4	1.6	1.2	0.9	-0.3
Population Density:														
Large MSA	2.6	1.9	1.3	1.1	1.4	1.0	1.2	0.9	0.7	1.0	1.1	0.7	0.9	+0.2
Other MSA	1.7	1.9	1.6	1.3	1.6	1.1	1.3	1.2	1.5	1.0	0.7	1.2	1.1	-0.2
Non-MSA	2.0	2.0	1.6	1.6	1.0	0.9	1.0	0.9	0.6	1.2	0.6	1.0	0.7	-0.4
Parental Education: a														
1.0-2.0 (Low)	3.6	3.6	2.1	2.2	2.5	2.3	1.9	1.5	1.8	1.8	1.7	1.6	1.7	0.0
2.5-3.0	2.4	2.2	1.4	0.9	1.7	8.0	1.3	1.0	1.2	1.2	1.0	1.1	1.0	-0.1
3.5-4.0	2.0	1.9	1.6	1.4	1.4	1.2	1.0	1.2	0.7	1.0	0.3	1.0	8.0	-0.2
4.5-5.0	1.8	1.7	1.4	1.4	1.0	8.0	1.1	8.0	8.0	0.7	8.0	0.5	0.7	+0.2
5.5-6.0 (High)	1.2	1.0	1.3	0.6	0.8	8.0	1.1	8.0	1.4	0.8	0.6	0.6	0.5	-0.1
Race/Ethnicity (2-year average): b														
White	1.9	2.0	1.8	1.4	1.2	1.1	1.1	1.0	0.8	0.8	0.7	8.0	0.9	+0.1
African American	1.0	1.0	0.9	0.9	0.7	0.7	0.7	0.9	1.3	1.3	0.9	8.0	0.7	-0.1
Hispanic	3.1	2.7	2.0	1.6	1.8	1.9	1.7	1.7	1.7	1.5	1.3	1.1	1.2	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .01, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1986; N is one fifth of N indicated in Table S3. Data based on two forms in 1987–1989; N is two fifths of N indicated in 1987–1988 and two sixths of N indicated in 1989 in Table S3. Data based on six forms beginnning in 1990.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 46
OTHER COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

						Percen	itage wh	o used ir	last 12	months					
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	1.0	1.2	1.3	1.7	2.1	2.5	2.2	2.4	2.3	1.9	1.9	1.8	1.6	1.6	1.7
Gender:															
Male	1.1	1.2	1.5	1.7	2.0	2.2	2.5	2.3	2.3	1.9	1.8	1.7	1.5	1.3	1.5
Female	0.8	1.2	1.2	1.8	2.2	2.6	1.9	2.4	2.2	1.8	2.0	1.9	1.6	1.8	1.8
College Plans:															
None or under 4 years	2.7	4.2	4.1	5.6	5.9	6.6	6.0	7.7	7.1	6.1	5.3	6.4	5.0	5.4	4.5
Complete 4 years	0.6	0.7	0.9	1.2	1.6	1.8	1.7	1.8	1.7	1.4	1.5	1.3	1.2	1.1	1.4
Region:															
Northeast	1.2	0.7	0.9	1.9	1.8	2.1	1.6	1.4	1.7	1.1	1.6	1.2	1.0	1.6	1.5
Midwest	0.6	1.0	0.7	0.9	2.0	2.4	2.0	1.9	2.2	2.3	1.6	1.8	1.7	1.1	1.3
South	1.0	1.5	1.6	2.0	2.0	2.3	2.1	3.1	2.6	1.7	2.4	2.1	1.9	1.7	1.9
West	1.3	1.5	2.1	2.0	2.7	3.1	2.9	2.5	2.2	2.5	1.7	1.9	1.6	1.8	1.8
Population Density:															
Large MSA	0.9	1.1	1.0	1.6	2.0	2.5	1.7	1.8	1.8	1.6	1.6	1.4	1.2	1.7	1.6
Other MSA	0.9	1.4	1.8	2.1	2.1	2.6	2.2	2.5	2.3	1.8	2.2	1.8	1.6	1.6	1.7
Non-MSA	1.1	0.9	0.7	1.2	2.2	2.2	2.5	2.8	2.8	2.5	1.6	2.3	2.2	1.3	1.7
Parental Education: a															
1.0-2.0 (Low)	2.1	2.7	2.2	3.1	4.3	3.2	3.5	4.7	5.1	4.2	3.7	2.8	2.9	3.1	2.9
2.5–3.0	1.2	1.1	1.5	2.0	2.0	2.6	2.4	2.5	2.8	2.1	1.9	2.3	1.8	1.9	2.2
3.5-4.0	0.6	1.0	1.5	1.9	2.2	2.8	2.1	2.4	2.3	1.9	1.8	1.9	1.6	1.5	2.0
4.5–5.0	0.6	0.8	0.8	1.1	1.6	2.4	1.9	1.8	1.3	1.4	1.6	1.6	1.1	1.3	1.2
5.5-6.0 (High)	1.0	1.2	0.8	1.2	2.0	1.9	1.7	1.8	1.8	1.3	1.1	0.8	1.5	0.9	0.9
Race/Ethnicity (2-year average): b															
White	_	0.9	1.0	1.2	1.8	2.4	2.5	2.2	2.1	1.9	1.8	1.8	1.8	1.5	1.4
African American	_	0.6	0.5	0.6	0.5	0.4	0.3	0.5	0.7	0.6	0.5	0.5	0.6	0.8	0.9
Hispanic	_	2.6	3.3	4.0	4.3	4.1	3.3	4.0	4.9	3.9	3.2	3.1	2.7	2.8	2.9

TABLE 46 (cont.)

OTHER COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

					Percer	itage wh	o used ii	n last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2013	<u>2014</u>	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,700			16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	change
Total	1.6	1.5	1.4	1.3	1.3	1.1	1.0	0.8	0.8	0.8	0.6	0.6	0.7	0.0
Gender:														
Male	1.4	1.3	1.4	1.3	1.3	1.1	0.9	0.8	0.8	0.9	0.6	0.5	0.7	+0.2
Female	1.7	1.6	1.4	1.3	1.4	0.9	1.0	0.8	0.7	0.6	0.6	0.7	0.5	-0.2
College Plans:														
None or under 4 years	5.7	5.7	5.5	5.6	4.7	4.6	3.8	3.0	2.6	2.0	2.0	2.1	2.1	0.0
Complete 4 years	1.2	1.1	1.1	1.0	1.1	0.8	0.7	0.6	0.6	0.7	0.4	0.4	0.4	0.0
Region:														
Northeast	1.0	1.0	0.9	1.2	0.9	0.7	0.8	0.5	0.4	0.4	0.5	0.5	0.4	0.0
Midwest	1.1	1.3	1.5	1.5	1.6	1.0	0.5	0.6	0.6	0.6	0.3	0.5	0.4	-0.1
South	2.3	1.8	1.8	1.0	1.3	1.1	1.2	0.8	0.9	0.9	0.8	0.5	0.5	0.0
West	1.5	1.5	1.3	1.8	1.4	1.6	1.2	1.1	1.1	0.9	0.8	1.0	1.3	+0.3
Population Density:														
Large MSA	1.5	1.5	1.5	0.9	1.1	1.2	1.1	0.8	1.1	0.8	0.5	0.6	0.7	+0.1
Other MSA	1.6	1.5	1.4	1.6	1.5	1.2	1.0	0.9	0.7	0.9	0.6	0.7	0.7	-0.1
Non-MSA	1.7	1.5	1.4	1.4	1.3	0.8	0.8	0.7	0.7	0.3	0.8	0.4	0.6	+0.2
Parental Education: a														
1.0-2.0 (Low)	3.6	3.1	3.0	3.4	2.8	2.1	2.1	1.8	1.4	1.0	1.4	1.2	1.2	0.0
2.5–3.0	1.7	1.6	1.8	1.4	1.9	1.6	1.2	1.0	0.7	0.8	0.5	0.9	0.7	-0.2
3.5-4.0	1.7	1.4	1.7	1.2	1.3	1.3	0.9	0.8	0.8	0.8	0.6	0.7	0.6	-0.2
4.5–5.0	1.2	1.0	0.8	0.6	1.0	0.7	0.4	0.5	0.8	0.4	0.4	0.3	0.6	+0.4
5.5-6.0 (High)	0.9	0.9	1.1	1.3	0.9	0.6	0.6	0.7	0.4	0.8	0.5	0.4	0.4	0.0
Race/Ethnicity (2-year average): b														
White	1.5	1.3	1.2	1.2	1.2	1.0	0.8	0.7	0.5	0.5	0.5	0.5	0.4	-0.1
African American	0.7	0.6	0.6	0.8	0.7	0.4	0.4	0.6	0.6	0.5	0.4	0.3	0.4	+0.1
Hispanic	2.8	3.1	2.8	2.2	2.2	2.4	2.2	1.5	1.1	1.0	0.9	0.8	0.9	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 47

OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percen	tage wh	o used ir	n last 12	months					
	<u>1991</u>	1992	1993	1994	<u>1995</u>	1996	1997	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	2.1	1.7	1.8	2.4	3.0	3.5	4.1	4.0	4.4	3.8	3.0	3.4	2.8	3.3	3.0
Gender:															
Male	2.0	1.9	2.2	2.7	3.1	3.7	4.1	4.1	4.6	4.2	3.3	3.6	2.9	3.6	3.3
Female	2.1	1.5	1.4	2.1	2.9	3.3	4.0	3.8	4.1	3.4	2.6	3.3	2.7	3.0	2.7
College Plans:															
None or under 4 years	4.4	3.3	4.5	5.9	6.3	8.4	9.0	9.3	10.5	8.3	8.2	8.7	7.3	8.3	8.1
Complete 4 years	1.6	1.3	1.3	1.7	2.5	2.7	3.2	3.0	3.4	3.0	2.1	2.6	2.1	2.6	2.3
Region:															
Northeast	1.3	1.0	1.8	2.0	2.2	2.2	2.5	4.3	4.1	2.5	2.0	1.8	2.7	3.2	3.0
Midwest	1.6	1.3	1.3	1.8	2.5	3.4	3.4	3.1	3.9	4.0	3.0	3.2	2.3	3.0	3.0
South	1.9	1.6	1.7	2.2	2.9	3.5	4.8	3.7	4.7	3.9	3.2	3.3	3.1	3.2	2.6
West	3.4	3.1	3.2	4.3	4.8	5.2	5.3	5.2	4.6	4.6	3.9	5.5	3.2	4.1	3.6
Population Density:															
Large MSA	1.6	1.5	1.4	1.9	2.8	3.3	3.9	3.8	3.7	3.7	2.5	3.1	2.2	2.9	2.7
Other MSA	2.6	2.0	2.0	2.7	3.1	3.9	3.8	4.0	4.5	3.7	3.2	3.7	2.8	3.4	3.1
Non-MSA	1.4	1.4	1.9	2.5	3.1	3.2	4.9	4.2	4.8	4.0	3.2	3.3	4.1	3.6	3.3
Parental Education: a															
1.0-2.0 (Low)	3.1	2.7	2.7	3.1	5.0	6.1	5.5	6.7	7.6	6.3	4.8	7.1	6.4	5.7	4.5
2.5-3.0	2.2	1.6	2.0	2.6	3.6	3.6	4.3	4.5	5.1	4.4	4.5	3.9	3.5	3.7	4.0
3.5-4.0	2.2	2.0	2.2	2.7	3.3	3.8	4.6	4.0	4.2	4.0	2.5	3.2	2.9	3.7	3.0
4.5-5.0	1.6	1.3	1.4	1.8	2.2	3.0	3.3	3.0	3.5	3.0	2.2	2.0	1.8	2.8	2.4
5.5-6.0 (High)	1.8	1.3	0.9	1.6	1.7	2.8	2.9	2.5	3.5	2.7	1.4	2.7	1.2	1.6	2.1
Race/Ethnicity (2-year average): b															
White	_	1.9	1.8	1.9	2.6	3.2	3.7	4.1	4.3	4.1	3.4	3.3	3.4	3.4	3.3
African American	_	0.5	0.5	0.9	0.8	0.6	0.6	0.9	0.8	0.5	0.5	0.7	0.7	0.7	0.8
Hispanic		3.4	3.4	4.6	5.2	6.1	7.5	7.0	6.8	7.1	5.6	5.0	5.2	5.1	5.4

TABLE 47 (cont.)

OTHER COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

					Percer	itage wh	o used ir	n last 12	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	2.9	3.1	2.6	2.3	1.9	1.7	1.8	1.6	1.3	1.5	1.1	1.2	1.4	+0.2
Gender:														
Male	3.0	3.2	2.7	2.5	2.3	2.1	2.1	2.2	1.7	1.5	1.4	1.5	1.7	+0.2
Female	2.8	2.9	2.4	2.1	1.3	1.2	1.5	1.0	0.9	1.4	0.9	0.9	1.2	+0.3
College Plans:														
None or under 4 years	8.3	7.5	7.8	7.2	6.8	5.1	6.2	3.9	4.5	3.1	3.6	2.9	3.6	+0.7
Complete 4 years	2.2	2.5	1.8	1.8	1.3	1.3	1.4	1.3	0.9	1.3	0.9	1.0	1.1	+0.2
Region:														
Northeast	2.5	2.5	1.7	2.1	1.7	1.7	1.1	1.1	1.0	1.4	0.7	0.6	0.9	+0.3
Midwest	2.8	3.3	2.2	2.1	1.5	1.2	1.2	8.0	1.1	1.2	1.0	1.4	1.0	-0.3
South	2.9	3.3	3.2	2.1	1.5	1.8	2.2	1.8	1.5	1.5	1.2	1.1	2.0	+0.9
West	3.5	3.0	2.7	3.1	3.0	2.1	2.5	2.4	1.6	2.0	1.5	1.5	1.3	-0.2
Population Density:														
Large MSA	2.6	3.1	2.4	2.2	1.9	1.8	2.0	1.5	1.0	1.4	1.1	1.7	1.2	-0.5
Other MSA	3.0	2.9	2.9	2.6	2.0	1.7	1.6	1.9	1.3	1.5	1.1	1.0	1.8	+0.8
Non-MSA	3.4	3.3	2.0	1.9	1.7	1.5	2.0	0.9	1.9	1.8	1.3	8.0	0.9	+0.1
Parental Education: a														
1.0-2.0 (Low)	5.6	5.1	5.9	5.1	3.6	3.1	5.3	2.5	2.6	2.5	1.2	1.7	2.3	+0.6
2.5-3.0	3.7	3.3	3.1	2.7	2.3	1.9	2.2	2.3	1.3	1.9	1.8	1.5	1.8	+0.3
3.5-4.0	2.8	3.2	2.4	2.5	1.7	1.7	1.5	1.4	1.5	1.7	0.9	1.0	1.6	+0.6
4.5-5.0	1.8	2.4	1.9	1.4	1.6	1.3	1.3	1.1	8.0	1.0	1.0	0.9	0.9	0.0
5.5-6.0 (High)	2.8	2.4	1.3	2.0	1.0	1.0	1.0	1.2	0.9	1.1	0.7	1.1	1.4	+0.2
Race/Ethnicity (2-year average): b														
White	3.2	3.2	2.8	2.3	1.9	1.6	1.5	1.4	1.3	1.3	1.3	1.2	1.2	0.0
African American	0.9	0.6	0.7	0.7	0.6	0.6	1.2	1.4	0.7	0.6	0.5	0.6	0.6	0.0
Hispanic	5.0	4.5	4.6	4.5	4.0	3.7	3.4	3.4	2.6	1.9	1.5	1.2	2.1	+0.9

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 48
OTHER COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Pe	ercentage	who us	ed in last	12 mont	hs					
Approximate weighted N =	<u>1975</u> —	<u>1976</u> —	<u>1977</u>	<u>1978</u> —	<u>1979</u> —	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u> —	<u>1985</u>	<u>1986</u> —	<u>1987</u> 16,300	1988 16,300	<u>1989</u> 16,700	<u>1990</u> 15,200
Total	_	_	_	_	_	_	_	_	_	_	_	_	9.8	7.4	5.2	4.6
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	_	10.1	8.0	6.5	5.8
Female	_	_	_	_	_	_	_	_	_	_	_	_	9.1	6.2	4.0	3.2
College Plans:																
None or under 4 years													9.8	6.0	7.3	6.3
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	_	8.3	6.7	4.2	3.7
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	_	12.9	7.0	4.9	5.6
Midwest	_	_	_	_	_	_	_	_	_	_	_	_	8.2	5.6	4.8	3.7
South	_	_	_	_	_	_	_	_	_	_	_	_	5.8	5.8	4.6	4.1
West	_	_	_	_	_	_	_	_	_	_	_	_	15.3	13.4	7.5	6.1
Population Density:																
Large MSA	_		_	_	_		_	_	_	_	_	_	13.3	9.8	5.6	5.0
Other MSA	_	_	_	_	_	_	_	_	_	_	_	_	8.9	7.8	5.4	4.7
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	_	8.0	4.5	4.4	4.1
Parental Education: a																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	_	5.3	4.9	3.3	3.4
2.5–3.0	_	_	_	_	_	_	_	_	_	_	_	_	10.5	6.5	4.6	5.0
3.5–4.0	_	_	_	_	_	_	_	_	_	_	_	_	10.5	7.2	5.1	4.7
4.5–5.0	_	_	_	_	_	_	_	_	_	_	_	_	9.0	7.7	6.1	4.1
5.5–6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	_	9.7	9.0	6.5	5.4
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	_	_	_	_	_	9.3	7.0	5.3
African American	_	_	_	_	_	_	_	_	_	_	_	_	_	2.8	1.4	0.7
Hispanic	_	_	_	_	_	_	_	_	_	_	_	_	_	6.3	5.1	5.1

TABLE 48 (cont.)

OTHER COCAINE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

Percentage who used in last 12 months 1994 2002 2004 1991 1992 1993 1995 1996 1998 1999 2000 2001 2003 Approximate weighted N = 15,00015,800 16,300 15,400 15,400 14,300 15,400 15,200 13,600 12,800 12,800 12,900 14,600 14,600 14,700 4.2 4.2 4.7 Total 3.2 2.6 2.9 3.0 3.4 5.0 4.9 5.8 4.5 4.4 4.4 4.5 Gender: Male 3.7 3.1 3.7 3.7 4.0 4.9 5.7 5.6 7.1 5.5 4.9 5.0 5.4 5.8 Female 2.4 2.0 2.0 2.3 3.2 4.0 3.9 3.4 3.7 3.7 2.9 2.5 4.2 3.5 3.6 College Plans: None or under 4 years 4.0 4.0 7.0 7.1 6.7 3.9 4.3 4.5 5.7 8.9 7.6 6.7 7.4 4.8 6.8 Complete 4 years 2.8 2.0 2.5 2.5 2.9 3.5 4.1 3.5 5.2 3.7 3.4 3.4 3.8 3.9 3.9 Region: Northeast 3.4 2.8 2.3 2.8 4.2 5.2 5.9 4.7 4.1 3.7 4.4 4.3 5.3 4.4 4.3 Midwest 2.9 2.2 2.3 3.5 2.7 3.2 4.1 5.3 3.2 4.2 5.7 4.5 5.6 4.8 3.9 South 2.8 2.5 2.6 2.6 3.1 4.2 4.6 4.9 6.6 4.0 3.9 4.4 4.1 4.9 4.7 West 3.9 3.1 4.6 3.5 4.5 6.2 4.4 6.1 3.5 3.9 4.7 4.7 4.0 5.9 5.8 Population Density: Large MSA 3.7 3.1 2.6 2.6 3.7 3.9 4.2 4.8 4.8 3.7 4.1 3.5 3.0 3.9 4.6 Other MSA 3.3 2.5 3.6 3.5 3.3 4.4 5.2 4.9 4.5 4.3 4.7 5.3 4.7 6.0 5.4 Non-MSA 2.5 2.3 4.2 3.9 2.0 2.6 3.1 5.6 4.9 6.7 5.4 5.0 4.9 4.2 4.0 Parental Education: a 1.0-2.0 (Low) 3.5 3.7 3.9 2.7 2.9 5.2 6.4 5.5 7.4 5.4 3.7 5.1 4.1 6.3 2.5-3.0 3.5 2.3 3.2 2.3 3.4 3.8 4.9 5.3 5.0 3.8 5.6 4.7 3.4 3.6 5.5 3.5-4.0 3.2 2.6 3.3 3.4 3.6 4.6 4.9 5.3 6.9 4.7 4.7 4.9 4.6 5.1 4.7 4.5-5.0 2.7 2.3 2.9 2.6 3.2 3.9 4.4 4.2 5.5 4.5 3.9 3.4 4.3 5.1 4.2 5.5-6.0 (High) 2.0 1.7 3.1 2.7 3.8 4.8 3.5 3.6 4.2 2.2 3.9 3.8 3.7 3.7 Race/Ethnicity (2-year average): b White 4.2 2.9 2.6 2.9 3.3 3.9 5.0 5.0 4.9 4.8 4.9 5.6 6.0 5.7 5.1 1.0 1.0 0.7 0.8 0.7 0.7 0.6 0.8 0.9 0.8 1.2 African American 8.0 1.0 1.0 1.1 Hispanic 5.0 4.3 5.1 5.1 4.0 5.6 6.9 6.0 5.8 6.6 5.8 4.7 3.9 4.8 5.8

TABLE 48 (cont.)

OTHER COCAINE: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

						Percer	ntage who	used in	last 12 r	nonths					
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
	Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	change
Total	,,	5.2	4.5	4.0	3.0	2.6	2.6	2.4	2.4	2.4	2.1	2.0	2.3	2.0	-0.4
Gender:															
Male		5.7	4.8	4.8	3.6	3.6	3.4	2.8	3.1	3.6	2.7	2.5	3.4	2.2	-1.1 s
Female		4.4	3.9	3.1	2.3	1.7	1.9	1.8	1.6	1.3	1.6	1.4	1.4	1.2	-0.2
College F	Plans:														
None or	under 4 years	6.9	7.7	6.8	4.7	5.3	4.3	3.2	4.4	3.3	3.8	3.3	4.3	3.3	-1.1
Comple	te 4 years	4.7	3.6	3.1	2.5	2.1	2.2	2.0	1.8	2.1	1.7	1.7	1.8	1.4	-0.4
Region:															
Northea	st	6.2	5.3	4.4	2.7	3.3	2.9	1.8	2.4	2.2	1.9	1.0	2.2	2.1	-0.1
Midwest	t	3.6	4.4	3.4	3.5	2.2	2.6	1.7	1.7	2.0	1.9	1.6	1.7	1.8	+0.1
South		5.8	4.5	4.2	2.7	1.9	2.4	2.5	2.1	2.5	1.6	1.7	2.0	1.4	-0.6
West		5.1	3.8	4.1	2.9	3.6	2.9	3.3	3.5	2.7	3.5	3.7	3.5	2.9	-0.6
Populatio	on Density:														
Large M	ISA	7.2	4.3	4.1	2.8	2.8	2.6	2.6	2.1	2.0	2.4	2.2	2.6	2.0	-0.6
Other M	ISA	4.4	4.6	3.9	3.0	3.0	2.7	2.6	2.7	2.9	2.0	2.1	2.3	1.8	-0.5
Non-MS	SA .	3.8	4.6	4.2	3.2	1.5	2.5	1.5	1.9	1.9	1.9	1.8	1.9	2.3	+0.5
Parental	Education: a														
1.0-2.0	(Low)	4.6	5.2	3.0	3.8	3.0	3.2	3.5	3.3	1.7	3.1	2.7	2.7	2.4	-0.3
2.5-3.0		5.5	5.0	3.8	3.2	2.6	2.6	2.4	3.1	3.1	2.3	1.9	2.7	2.5	-0.2
3.5-4.0		5.2	4.5	4.6	2.5	2.9	2.9	2.4	2.7	2.3	2.1	1.9	2.2	1.3	-0.9
4.5-5.0		4.6	4.3	3.5	2.9	2.1	2.2	1.9	1.4	2.2	1.8	2.0	1.7	1.6	-0.1
5.5-6.0	(High)	5.9	3.7	4.2	2.6	2.6	2.5	2.2	1.9	2.6	1.9	2.0	2.4	1.6	-0.9
Race/Eth	nicity (2-year average): b														
White		5.2	5.5	5.2	4.3	3.2	3.0	2.8	2.3	2.0	2.0	2.1	2.3	2.3	0.0
African A	American	1.4	1.2	0.7	0.6	0.7	0.7	0.8	1.0	1.5	1.4	0.8	0.6	0.4	-0.1
Hispanio	С	5.7	4.8	3.7	3.1	2.5	2.5	3.1	3.6	3.4	3.0	2.9	2.7	2.4	-0.2

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one form in 1987–1989; N is one fifth of N indicated in 1987–1988 and one sixth of N indicated in 1989 in Table S3. Data based on four of six forms beginning in 1990; N is four sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 49
HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 8

						Percer	ntage wh	o used ir	last 12	months					
	1991	1992	1993	1994	<u>1995</u> <sup>a</sup>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	0.7	0.7	0.7	1.2	1.4	1.6	1.3	1.3	1.4	1.1	1.0	0.9	0.9	1.0	8.0
Gender:															
Male	0.9	0.8	0.8	1.3	1.6	1.5	1.4	1.5	1.4	1.0	1.0	8.0	8.0	0.9	8.0
Female	0.5	0.7	0.5	0.9	1.2	1.5	1.1	1.1	1.3	1.2	1.0	1.0	0.9	1.0	8.0
College Plans:															
None or under 4 years	2.1	2.7	2.0	3.9	4.4	4.1	3.4	5.0	3.7	3.5	3.1	2.9	3.1	4.2	2.3
Complete 4 years	0.4	0.4	0.5	0.7	1.0	1.1	1.1	0.9	1.1	0.8	0.8	0.7	0.6	0.6	0.6
Region:															
Northeast	0.5	0.6	0.7	1.3	1.4	1.8	1.1	1.1	1.3	1.1	1.1	0.8	0.7	1.1	0.7
Midwest	0.4	0.8	0.5	1.1	1.4	1.6	1.4	1.3	1.6	1.4	1.0	1.0	1.0	0.8	0.5
South	0.8	0.7	0.7	1.1	1.5	1.4	1.2	1.4	1.4	0.7	1.2	1.0	1.0	0.9	1.0
West	1.0	0.7	1.1	1.1	1.2	1.6	1.4	1.3	1.2	1.4	0.7	1.0	0.9	1.2	8.0
Population Density:															
Large MSA	0.5	0.7	0.7	1.2	1.2	1.4	1.0	1.0	1.3	1.0	0.9	0.7	8.0	1.2	0.6
Other MSA	0.7	0.8	0.9	1.2	1.5	1.7	1.3	1.3	1.4	1.1	1.0	1.0	0.9	1.0	0.8
Non-MSA	0.8	0.7	0.4	1.0	1.5	1.5	1.5	1.6	1.5	1.0	1.1	1.1	1.2	0.6	1.0
Parental Education: b															
1.0-2.0 (Low)	1.5	1.4	0.8	2.0	2.6	2.0	2.3	3.5	2.8	1.7	2.6	1.2	2.1	1.9	0.5
2.5-3.0	0.9	0.7	0.6	1.1	1.0	1.7	1.4	1.2	1.4	1.5	1.1	1.3	1.0	1.1	1.3
3.5-4.0	0.6	0.6	0.7	1.3	1.6	1.7	1.0	1.1	1.2	0.7	1.0	0.9	8.0	1.0	1.0
4.5–5.0	0.4	0.5	0.8	0.8	1.2	1.4	1.1	1.1	1.1	0.8	0.6	0.8	0.6	0.7	0.5
5.5-6.0 (High)	0.5	0.8	0.6	1.3	1.6	1.0	1.5	1.4	1.8	1.0	0.8	0.6	0.7	0.6	0.4
Race/Ethnicity (2-year average): c															
White	_	0.6	0.6	0.8	1.2	1.6	1.6	1.3	1.2	1.2	1.0	1.0	0.9	0.9	8.0
African American	_	0.4	0.3	0.6	0.7	0.5	0.4	0.5	0.7	0.5	0.6	0.6	0.5	0.7	0.5
Hispanic	_	1.4	1.4	1.5	1.8	2.1	1.7	1.7	2.2	2.0	1.4	1.2	1.4	1.7	1.5

TABLE 49
HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who use	ed in last 12 months
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														2017-2018
	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	2014	2015 <sup>a</sup>	2016 <sup>a</sup>	2017 <sup>a</sup>	2018 <sup>a</sup>	change
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	8.0	8.0	0.9	0.7	8.0	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0
Gender:														
Male	0.6	8.0	0.9	8.0	0.9	0.7	0.5	0.4	0.6	0.2	0.2	0.2	0.4	+0.2
Female	0.9	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.4	0.3	0.2	0.4	0.2	-0.2
College Plans:														
None or under 4 years	3.0	3.7	3.5	3.5	2.3	3.1	1.8	2.1	2.2	0.6	0.9	1.7	0.9	-0.7
Complete 4 years	0.6	0.5	0.6	0.5	0.7	0.5	0.4	0.4	0.3	0.2	0.1	0.2	0.2	0.0
Region:														
Northeast	0.4	0.5	0.7	0.4	0.6	0.6	0.4	0.3	0.3	0.1	0.2	0.2	0.2	0.0
Midwest	0.7	8.0	1.0	0.7	8.0	0.8	0.4	0.4	0.5	0.3	0.1	0.3	0.1	-0.2
South	0.9	0.8	8.0	0.6	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.3	0.4	+0.2
West	0.9	1.0	0.9	1.2	0.9	0.8	0.5	0.6	8.0	0.1	0.2	0.7	0.5	-0.1
Population Density:														
Large MSA	0.7	0.5	1.2	0.6	0.7	0.6	0.6	0.5	0.6	0.2	0.2	0.4	0.6	+0.2
Other MSA	0.9	0.9	8.0	8.0	0.9	0.8	0.5	0.6	0.4	0.2	0.3	0.4	0.2	-0.2
Non-MSA	0.8	1.0	0.6	0.7	0.7	0.7	0.3	0.4	0.5	0.5	0.2	0.1	0.2	+0.1
Parental Education: b														
1.0-2.0 (Low)	1.8	1.9	2.3	2.0	1.4	1.4	0.9	1.2	1.1	0.3	0.3	1.0	0.6	-0.4
2.5–3.0	0.8	8.0	1.0	8.0	1.0	1.3	0.8	0.6	0.4	0.2	0.3	0.3	0.6	+0.2
3.5-4.0	0.8	0.6	0.7	0.6	0.8	0.6	0.8	0.5	0.4	0.2	0.3	0.3	0.4	+0.1
4.5–5.0	0.6	0.9	0.4	0.5	0.5	0.3	0.2	0.3	0.3	0.3	0.2	0.0	0.2	0.1
5.5-6.0 (High)	0.4	0.4	1.2	0.6	0.8	0.5	0.3	0.5	0.5	0.1	0.1	0.3	0.1	-0.2
Race/Ethnicity (2-year average): c														
White	0.7	0.7	8.0	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.0
African American	0.4	0.4	0.4	0.6	0.7	0.4	0.5	0.5	0.4	0.2	0.1	0.2	0.2	0.0
Hispanic	1.1	1.2	1.3	1.2	1.3	1.4	1.0	0.7	0.6	0.3	0.1	0.4	0.6	+0.2 s

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 50
HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 10

						Percen	itage wh	o used ir	n last 12	months					
•	1991	1992	1993	1994	1995 <sup>a</sup>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.4	1.4	1.4	0.9	1.1	0.7	0.9	0.9
Gender:															
Male	0.7	0.8	0.9	1.0	1.3	1.5	1.6	1.7	1.7	1.5	1.0	1.3	0.8	1.0	1.1
Female	0.4	0.4	0.4	0.8	8.0	0.9	1.3	1.1	1.2	1.2	0.8	0.8	0.7	0.7	8.0
College Plans:															
None or under 4 years	1.4	1.4	1.9	2.0	2.2	2.4	2.9	2.7	3.4	3.8	2.5	2.7	2.0	2.8	3.2
Complete 4 years	0.3	0.4	0.4	0.7	0.9	1.0	1.2	1.2	1.1	1.0	0.7	0.8	0.5	0.6	0.6
Region:															
Northeast	0.4	0.6	0.6	0.6	0.9	0.9	1.3	1.8	1.9	1.5	1.0	0.9	0.6	1.1	1.3
Midwest	0.6	0.6	8.0	0.9	1.0	1.5	1.5	1.4	1.3	1.6	1.1	1.2	0.7	0.7	1.0
South	0.6	0.5	0.6	1.0	1.3	1.4	1.5	1.3	1.4	1.5	0.9	0.8	0.9	1.0	8.0
West	0.4	8.0	0.5	1.2	1.0	1.0	1.3	1.1	1.1	0.7	0.7	1.4	0.7	0.8	8.0
Population Density:															
Large MSA	0.6	0.6	0.7	0.8	1.0	1.1	1.6	1.2	1.2	1.8	0.9	0.9	0.6	0.9	8.0
Other MSA	0.5	0.6	0.6	0.9	1.0	1.3	1.3	1.5	1.4	1.2	1.0	1.0	8.0	0.9	1.0
Non-MSA	0.4	0.6	0.7	1.0	1.3	1.2	1.6	1.5	1.6	1.2	0.9	1.4	0.9	0.7	0.9
Parental Education: b															
1.0-2.0 (Low)	0.4	0.5	1.2	1.3	1.8	1.0	1.3	1.7	2.4	1.3	1.1	2.0	1.1	1.5	1.7
2.5–3.0	8.0	0.7	0.7	0.8	1.0	1.2	1.3	1.2	1.5	1.7	1.3	0.8	8.0	1.0	1.2
3.5-4.0	0.5	0.6	8.0	0.9	1.2	1.3	1.6	1.6	1.2	1.5	0.6	1.1	0.7	0.8	8.0
4.5–5.0	0.4	0.5	0.3	0.9	0.9	1.1	1.5	1.3	1.4	1.3	0.8	0.7	0.6	0.7	8.0
5.5-6.0 (High)	0.4	0.5	0.8	0.9	0.9	1.5	1.1	1.3	1.2	1.1	0.9	1.6	0.3	0.5	0.6
Race/Ethnicity (2-year average): c															
White	_	0.6	0.7	0.8	1.0	1.2	1.4	1.4	1.5	1.5	1.2	1.0	0.9	8.0	0.9
African American	_	0.3	0.4	0.6	0.6	0.2	0.2	0.4	0.5	0.5	0.5	0.3	0.3	0.4	0.6
Hispanic	_	0.7	0.7	0.7	1.0	1.0	1.3	1.6	1.7	1.4	1.4	1.1	1.1	1.2	1.2

TABLE 50
HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percer	ntage wh	o used ir	n last 12	months					
														2017-2018
	2006	2007	2008	2009	<u>2010</u>	2011	2012	<u>2013</u>	2014	2015 <sup>a</sup>	2016 <sup>a</sup>	2017 <sup>a</sup>	2018 <sup>a</sup>	change
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	,	
Total	0.9	8.0	8.0	0.9	0.8	8.0	0.6	0.6	0.5	0.5	0.3	0.2	0.2	-0.1
Gender:														
Male	0.9	0.9	1.0	1.1	0.9	0.9	0.6	0.9	0.5	0.4	0.5	0.2	0.2	0.0
Female	8.0	8.0	0.6	0.6	0.7	0.6	0.6	0.4	0.5	0.4	0.1	0.2	0.1	-0.1
College Plans:														
None or under 4 years	2.7	2.0	2.5	2.9	2.8	2.6	2.5	2.0	1.9	1.3	1.0	0.7	0.5	-0.2
Complete 4 years	0.6	0.7	0.6	0.7	0.6	0.6	0.4	0.5	0.4	0.3	0.2	0.1	0.1	-0.0
Region:														
Northeast	0.9	1.1	0.7	0.9	0.8	0.9	0.6	0.5	0.2	0.6	0.2	0.2	0.2	0.0
Midwest	0.9	0.7	1.0	1.1	0.8	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.1	-0.3
South	0.9	0.8	0.9	0.8	0.8	0.9	0.6	0.5	0.8	0.5	0.3	0.1	0.2	+0.1
West	0.7	0.9	0.7	1.0	0.8	0.7	0.6	0.9	0.5	0.4	0.4	0.3	0.2	-0.1
Population Density:														
Large MSA	0.7	0.9	0.6	0.8	0.8	0.7	0.7	0.5	0.4	0.4	0.3	0.3	0.2	-0.1
Other MSA	0.9	0.8	0.8	1.2	0.8	8.0	0.4	0.8	0.4	0.3	0.3	0.2	0.2	-0.1
Non-MSA	1.0	0.7	1.1	0.5	0.9	8.0	0.9	0.5	1.1	0.8	0.4	0.3	0.2	0.0
Parental Education: b														
1.0-2.0 (Low)	1.4	1.8	1.9	1.5	1.3	0.9	1.7	0.8	0.5	1.1	0.6	0.6	0.2	-0.4
2.5-3.0	0.9	0.8	0.5	1.1	0.6	1.0	0.8	0.9	0.7	0.5	0.3	0.3	0.1	-0.2
3.5-4.0	0.6	0.8	1.1	1.2	0.7	8.0	0.5	0.4	0.6	0.4	0.2	0.2	0.2	0.0
4.5–5.0	0.7	0.7	0.6	0.6	0.9	0.5	0.5	0.5	0.4	0.3	0.3	0.1	0.1	0.0
5.5–6.0 (High)	1.2	0.5	0.6	0.6	0.8	0.5	0.3	0.9	0.5	0.4	0.4	0.1	0.3	+0.2
Race/Ethnicity (2-year average): c														
White	1.0	0.8	0.7	0.8	0.8	0.7	0.6	0.5	0.6	0.5	0.3	0.2	0.1	0.0
African American	0.6	0.4	0.5	0.4	0.4	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.2	-0.1
Hispanic	1.2	1.0	1.0	1.1	1.0	0.9	1.0	1.0	0.7	0.5	0.4	0.4	0.3	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001, '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; *N* is two thirds of *N* indicated.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 51

HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months 1979 1980 1981 1982 1983 1984 1985 <u>1986</u> 1987 1988 1989 1990 1976 1977 <u>1978</u> 9,400 15,900 17,500 16,000 15,200 Approximate weighted N = 15,400 17,100 17,800 15,500 17,700 16,300 15,900 15,200 16,300 16,300 16,700 Total 1.0 0.8 0.6 0.6 0.5 0.8 8.0 0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.6 0.5 Gender: 0.6 Male 1.2 0.7 0.8 1.0 1.2 1.1 0.6 0.6 0.6 8.0 0.7 0.7 0.7 0.7 0.9 Female 8.0 0.5 0.4 0.6 0.3 0.4 0.3 0.4 0.4 0.3 0.3 0.2 0.3 0.3 0.4 0.3 College Plans: None or under 4 years 0.9 1.1 1.0 0.7 0.6 0.5 0.7 0.9 0.6 0.7 8.0 0.5 0.8 0.9 0.6 0.6 Complete 4 years 0.6 0.5 0.3 0.3 0.5 0.4 0.3 0.4 0.5 0.4 0.4 0.3 0.5 0.4 Region: Northeast 1.1 0.7 0.7 0.6 0.6 0.5 0.5 0.9 0.6 0.6 8.0 0.7 0.6 0.5 0.9 0.8 Midwest 1.3 1.0 1.0 0.8 0.5 0.7 0.6 0.5 0.4 0.6 0.6 0.4 0.6 0.3 0.6 0.3 0.6 South 0.9 0.7 0.9 1.1 0.6 0.3 0.5 0.5 0.7 0.5 0.5 0.4 0.5 0.6 0.5 West 0.7 0.6 0.5 0.8 0.2 0.4 0.5 0.3 0.5 0.4 0.3 0.5 0.5 0.7 0.7 0.3 Population Density: Large MSA 1.3 1.0 0.5 0.7 0.4 0.3 0.3 0.7 0.6 0.6 0.7 0.7 0.3 0.4 0.5 0.4 Other MSA 0.9 1.0 8.0 0.8 0.6 0.5 0.5 0.4 0.4 0.4 0.7 0.4 0.6 0.5 0.7 0.5 Non-MSA 1.0 0.4 1.1 1.0 0.5 0.6 0.7 0.6 0.7 0.7 0.4 0.5 0.5 0.5 0.8 0.5 Parental Education: a 8.0 1.0-2.0 (Low) 1.2 0.8 8.0 0.6 0.6 0.4 0.4 0.5 0.6 0.8 0.9 0.5 0.5 0.9 0.8 2.5-3.0 8.0 0.9 8.0 0.9 0.5 0.6 0.6 0.7 0.6 0.5 0.5 0.4 0.4 0.7 0.7 0.4 3.5 - 4.00.6 0.8 0.9 0.7 0.4 0.4 0.5 0.3 0.5 0.5 0.5 0.5 0.6 0.4 0.6 0.4 4.5-5.0 1.2 1.4 0.6 0.9 0.6 0.4 0.3 0.6 0.4 0.4 0.7 0.3 0.3 0.3 0.6 0.4 5.5-6.0 (High) 1.2 0.6 1.1 1.0 8.0 0.4 0.7 1.1 0.8 0.5 0.6 0.5 0.7 0.4 0.4 0.5 Race/Ethnicity (2-year average): b White 8.0 0.8 0.6 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.5 0.6 African American 0.6 0.6 0.5 0.5 0.6 0.7 0.6 0.4 0.5 0.5 0.5 0.7 0.6 0.3 Hispanic 1.2 2.0 1.7 0.4 0.3 0.4 0.6 1.1 1.0 0.9 0.9 0.5 0.5 0.6

TABLE 51 (cont.)

HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Percer	itage who	o used in	last 12 r	nonths					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	1995°	<u>1996</u> 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	1.1	1.5	0.9	1.0	0.8	0.9	0.8
Gender:															
Male	0.6	0.8	0.7	0.8	1.4	1.3	1.5	1.4	1.4	1.7	1.3	1.1	0.8	1.2	1.2
Female	0.3	0.3	0.3	0.4	0.8	0.7	0.9	0.7	8.0	1.2	0.6	8.0	0.5	0.4	0.5
College Plans:															
None or under 4 years	0.5	0.9	1.0	1.1	1.5	1.8	1.8	1.7	1.3	2.2	1.3	2.3	0.9	1.6	1.8
Complete 4 years	0.4	0.5	0.4	0.5	0.9	0.8	1.0	8.0	1.0	1.1	0.7	0.7	0.6	0.6	0.6
Region:															
Northeast	0.2	0.5	0.9	0.7	1.0	1.6	1.7	1.3	1.2	1.0	1.2	1.2	8.0	0.9	1.0
Midwest	0.8	0.6	0.5	0.9	0.7	0.7	0.9	1.0	0.9	1.4	1.3	1.0	0.6	0.6	8.0
South	0.4	0.6	0.4	0.6	1.4	1.0	1.1	1.1	1.3	1.6	0.6	1.2	1.0	1.0	0.9
West	0.3	0.8	0.5	0.4	1.0	0.9	1.2	0.6	0.9	1.8	0.8	0.5	0.5	0.9	0.7
Population Density:															
Large MSA	0.4	0.4	0.6	0.4	1.4	1.1	1.1	0.9	8.0	1.9	1.1	1.0	0.7	0.8	8.0
Other MSA	0.4	0.7	0.5	0.8	0.9	1.1	1.3	1.3	1.3	1.3	0.8	1.0	0.8	1.0	0.9
Non-MSA	0.6	0.7	0.5	0.5	1.0	0.9	1.0	0.6	1.0	1.3	0.9	1.1	0.9	0.6	8.0
Parental Education: a															
1.0-2.0 (Low)	0.5	0.7	0.3	0.9	1.8	1.1	2.1	1.2	2.3	2.3	1.3	2.1	1.1	1.4	1.0
2.5–3.0	0.4	0.6	0.4	0.8	1.1	0.9	1.0	1.0	0.9	1.6	0.5	1.0	0.7	0.9	1.2
3.5–4.0	0.4	0.6	0.6	0.4	0.9	1.1	1.2	1.2	1.0	1.3	1.0	0.9	0.8	0.7	8.0
4.5–5.0	0.6	0.7	0.7	0.3	1.1	1.0	1.1	1.0	1.1	1.5	1.0	0.7	0.6	0.9	0.5
5.5-6.0 (High)	0.5	0.3	0.4	0.9	1.0	0.8	1.1	0.7	1.1	1.1	0.8	1.0	0.6	0.6	8.0
Race/Ethnicity (2-year average): b															
White	0.5	0.5	0.5	0.5	0.8	1.0	1.2	1.2	1.1	1.3	1.3	1.0	0.8	0.7	0.7
African American	0.2	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.7	0.7	0.8
Hispanic	0.6	0.9	0.7	0.5	1.2	1.5	1.1	8.0	1.0	2.0	1.6	0.8	0.8	1.0	1.3

TABLE 51 (cont.) **HEROIN:** Trends in <u>Annual Prevalence of Use by Subgroups in <u>Grade 12</u></u>

					Percer	ntage who	o used in	last 12 r	nonths					
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 14 200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	<u>change</u>
Total	0.8	0.9	0.7	0.7	0.9	0.8	0.6	0.6	0.6	0.5	0.3	0.4	0.4	0.0
Gender:			•	• • • • • • • • • • • • • • • • • • • •										
Male	1.0	1.2	1.0	1.0	1.1	1.0	0.8	0.8	0.9	0.7	0.4	0.4	0.3	0.0
Female	0.4	0.6	0.4	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.2	-0.1
College Plans:														
None or under 4 years	1.3	2.2	1.4	1.1	1.7	1.2	1.2	1.0	1.1	1.3	0.8	0.7	0.8	+0.1
Complete 4 years	0.6	0.7	0.5	0.6	0.6	0.7	0.5	0.4	0.5	0.3	0.1	0.2	0.2	0.0
Region:														
Northeast	1.1	1.1	0.7	0.8	1.3	0.7	8.0	0.6	0.8	0.3	0.2	0.1	0.2	+0.1
Midwest	0.4	0.8	0.6	8.0	0.9	0.7	0.7	0.6	0.6	0.6	0.4	0.2	0.6	+0.4
South	8.0	0.9	0.7	0.6	0.7	0.7	0.4	0.5	0.5	0.4	0.2	0.6	0.4	-0.2
West	0.7	0.9	1.0	0.9	0.7	1.0	8.0	0.7	0.5	0.6	0.4	0.4	0.1	-0.2
Population Density:														
Large MSA	1.0	0.9	0.9	0.9	8.0	0.9	0.7	0.5	0.4	0.4	0.4	0.3	0.3	0.0
Other MSA	0.6	0.9	0.8	0.8	0.9	0.8	0.7	0.6	0.7	0.4	0.2	0.4	0.4	0.0
Non-MSA	0.6	1.0	0.5	0.6	0.8	0.5	0.5	0.6	0.5	0.6	0.4	0.5	0.3	-0.1
Parental Education: a														
1.0-2.0 (Low)	1.2	1.7	1.3	1.5	1.1	1.0	1.3	1.0	1.3	8.0	0.5	0.7	1.1	+0.4
2.5–3.0	0.9	1.0	0.5	8.0	1.0	0.5	8.0	0.6	0.6	0.4	0.2	0.6	0.3	-0.2
3.5-4.0	0.7	0.8	0.9	0.6	0.9	8.0	0.4	0.4	0.3	0.6	0.3	0.3	0.3	0.0
4.5–5.0	0.5	0.9	0.5	0.6	0.7	8.0	0.5	0.5	0.7	0.4	0.2	0.2	0.1	-0.0
5.5-6.0 (High)	0.7	0.5	0.7	0.5	0.6	0.7	0.4	0.6	0.5	0.2	0.3	0.2	0.2	0.0
Race/Ethnicity (2-year average): b														
White	0.7	0.9	0.9	0.7	8.0	0.9	0.7	0.5	0.4	0.4	0.3	0.2	0.2	0.0
African American	0.7	0.5	0.4	0.4	0.6	0.7	8.0	8.0	0.9	1.0	0.6	0.5	0.6	+0.1
Hispanic	1.2	1.1	0.9	0.7	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.4	0.4	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

cln 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms.

TABLE 52
HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

				Pe	ercentage	e who us	ed in last	12 mont	ths			
	1991-											
	1994	1995	<u>1996</u>	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	_	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	_	0.9	1.0	8.0	8.0	0.9	0.6	0.7	0.6	0.6	0.7	0.6
Gender:												
Male	_	1.2	1.0	8.0	1.0	1.0	0.7	0.7	0.6	0.7	0.7	0.6
Female	_	0.5	1.0	0.7	0.7	8.0	0.6	0.7	0.6	0.5	0.7	0.6
College Plans:												
None or under 4 years	_	3.2	3.1	2.0	3.1	2.2	2.1	2.2	1.9	2.0	3.1	1.5
Complete 4 years	_	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.4	0.4	0.4
Region:												
Northeast	_	8.0	1.3	0.5	0.6	1.0	8.0	0.9	0.6	0.4	0.7	0.4
Midwest	_	0.9	1.1	0.7	0.9	1.2	0.9	0.7	8.0	0.6	0.6	0.3
South	_	8.0	0.9	8.0	1.0	0.9	0.3	0.9	0.6	0.7	0.6	0.8
West	_	1.0	1.0	1.0	8.0	0.7	8.0	0.3	0.6	0.7	0.9	0.6
Population Density:												
Large MSA	_	0.9	0.7	0.6	8.0	8.0	0.7	0.7	0.4	0.5	1.0	0.3
Other MSA	_	0.9	1.2	0.8	8.0	0.9	0.6	0.6	0.7	0.6	0.7	0.7
Non-MSA	_	0.9	1.1	0.9	1.1	1.1	0.7	1.0	8.0	0.9	0.5	0.7
Parental Education: a												
1.0-2.0 (Low)	_	1.3	0.9	1.5	2.3	2.0	1.2	2.0	1.1	1.6	1.6	0.3
2.5–3.0	_	0.5	1.2	0.8	8.0	0.9	0.5	0.7	0.9	0.6	8.0	1.0
3.5-4.0	_	0.8	1.2	0.6	0.6	0.9	0.4	0.6	0.6	0.4	0.7	0.7
4.5–5.0	_	1.0	0.8	0.7	0.7	0.5	0.4	0.5	0.5	0.5	0.6	0.3
5.5-6.0 (High)	_	1.0	0.6	0.9	0.9	1.2	0.9	0.7	0.4	0.5	0.5	0.3
Race/Ethnicity (2-year average): b												
White	_	_	1.1	1.0	0.7	8.0	0.7	0.6	0.7	0.6	0.6	0.5
African American	_	_	0.3	0.2	0.3	0.4	0.3	0.5	0.5	0.4	0.5	0.4
Hispanic	_	_	1.1	1.0	1.1	1.5	1.2	0.8	0.7	0.9	1.3	1.1

TABLE 52 (cont.) **HEROIN WITH A NEEDLE:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

					Percer	itage who	o used in	last 12 r	nonths					
														2017-2018
Assessment societies (A)	<u>2006</u>	2007	<u>2008</u>	2009	<u>2010</u>	2011	<u>2012</u>	<u>2013</u>	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N = Total	0.5	16,100 0.6	15,700 0.5	15,000 0.5	15,300 0.6	16,000 0.5	15,100 0.4	14,600 0.3	14,600 0.4	14,400 0.2	16,900 0.2	15,300 0.2	1 <i>4,000</i> 0.2	0.0
Gender:	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.3	0.4	0.2	0.2	0.2	0.2	0.0
Male	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.2	0.5	0.2	0.2	0.2	0.2	+0.1
Female	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	-0.1
College Plans:	0.0	0.5	0.4	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.1	0.3	0.1	-0.1
None or under 4 years	2.1	2.7	2.1	2.6	1.3	2.1	1.3	1.8	2.2	0.6	0.7	1.1	0.5	-0.5
Complete 4 years	0.4	0.3	0.4	0.4	0.5	0.3	0.3	0.2	0.2	0.0	0.7	0.1	0.5	0.0
Region:	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.0
Northeast	0.3	0.4	0.5	0.3	0.5	0.5	0.3	0.2	0.2	0.1	0.2	0.1	0.2	+0.1
Midwest	0.4	0.6	0.5	0.5	0.6	0.3	0.3	0.3	0.4	0.2	0.1	0.3	0.1	-0.2
South	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.0
West	0.7	0.6	0.6	0.9	0.7	0.6	0.3	0.3	0.7	0.1	0.1	0.3	0.4	+0.1
Population Density:	0	0.0	0.0	0.0	٠	0.0	0.0	0.0	0	0	0	0.0	0	
Large MSA	0.5	0.3	0.7	0.5	0.6	0.4	0.4	0.2	0.5	0.2	0.2	0.3	0.3	+0.1
Other MSA	0.6	0.6	0.5	0.6	0.7	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.0
Non-MSA	0.4	0.7	0.3	0.5	0.3	0.4	0.2	0.2	0.4	0.3	0.2	0.1	0.1	0.0
Parental Education: a														
1.0-2.0 (Low)	1.4	1.3	1.6	1.6	0.6	1.0	0.6	0.8	0.9	0.3	0.2	0.7	0.5	-0.2
2.5–3.0	0.5	0.6	0.5	0.5	0.7	0.9	0.5	0.4	0.3	0.1	0.2	0.2	0.4	+0.2
3.5-4.0	0.4	0.3	0.4	0.3	0.6	0.4	0.7	0.3	0.3	0.1	0.2	0.2	0.2	+0.1
4.5–5.0	0.4	0.6	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.2	0.2	0.0	0.1	+0.1
5.5-6.0 (High)	0.2	0.3	0.7	0.5	0.6	0.4	0.2	0.3	0.4	0.1	0.1	0.1	0.1	-0.1
Race/Ethnicity (2-year average): b														
White	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0
African American	0.3	0.2	0.2	0.5	0.6	0.4	0.4	0.5	0.4	0.2	0.1	0.2	0.2	0.0
Hispanic	0.9	0.9	1.0	0.9	1.0	1.1	0.7	0.4	0.4	0.2	0.1	0.2	0.3	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; N is one half of N indicated in Table S1. Data based on all forms beginning in 1996. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 53 **HEROIN WITH A NEEDLE:** Trends in <u>Annual Prevalence of Use by Subgroups in <u>Grade 10</u></u>

				Pe	ercentage	e who us	ed in last	: 12 mont	ths				
	1991– 1994	<u>1995</u>	<u>1996</u>	1997	1998	1999	2000	2001	2002	2003	2004	2005	
Approximate weighted N =	_	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	_	0.6	0.7	0.7	0.8	0.6	0.5	0.4	0.6	0.5	0.5	0.5	
Gender:													
Male	_	8.0	8.0	0.9	1.0	0.8	0.6	0.5	0.6	0.5	0.6	0.6	
Female	_	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.4	
College Plans:													
None or under 4 years	_	1.6	1.4	1.5	1.6	1.7	1.7	1.4	1.5	1.4	1.6	1.6	
Complete 4 years	_	0.4	0.5	0.6	0.6	0.5	0.3	0.3	0.4	0.3	0.3	0.3	
Region:													
Northeast	_	0.5	0.3	0.6	8.0	0.7	0.5	0.5	0.4	0.4	0.5	0.6	
Midwest	_	0.6	1.0	0.8	0.9	0.7	0.5	0.5	0.6	0.5	0.4	0.5	
South	_	0.6	0.7	8.0	8.0	0.6	0.6	0.3	0.5	0.5	0.5	0.4	
West	_	0.5	0.5	0.6	0.6	0.6	0.4	0.5	8.0	0.5	0.5	0.6	
Population Density:													
Large MSA	_	0.5	0.5	0.6	0.7	0.6	0.6	0.4	0.5	0.4	0.5	0.4	
Other MSA	_	0.5	0.7	0.6	0.7	0.5	0.4	0.5	0.4	0.4	0.5	0.6	
Non-MSA	_	0.8	8.0	1.1	1.0	1.0	0.6	0.4	1.0	0.6	0.3	0.5	
Parental Education: a													
1.0-2.0 (Low)	_	1.6	0.6	0.7	1.3	1.2	1.0	0.5	1.2	8.0	1.0	1.4	
2.5–3.0	_	0.5	8.0	0.6	0.6	0.7	8.0	0.7	0.3	0.4	0.5	0.6	
3.5-4.0	_	0.7	0.7	0.9	0.9	0.6	0.5	0.2	0.6	0.5	0.4	0.4	
4.5–5.0	_	0.4	0.5	0.7	0.6	0.6	0.3	0.3	0.3	0.5	0.3	0.4	
5.5-6.0 (High)	_	0.3	0.6	0.7	8.0	0.6	0.3	0.5	1.1	0.2	0.3	0.3	
Race/Ethnicity (2-year average): b													
White	_	_	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.5	0.4	0.4	
African American	_	_	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.5	
Hispanic	_	_	0.6	0.6	0.8	1.0	0.9	0.9	0.7	0.7	0.8	0.8	

TABLE 53 (cont.)

HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percer	tage who	o used in	last 12 r	nonths					
		0007			0040	0044	0040	0040	2011	2015	0040	0047	0040	2017-2018
Approximate weighted N =	2006 16 200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15.600	2016 14.700	2017 13.500	2018 14.300	<u>change</u>
Total	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.2	0.3	0.2	0.1	-0.1
Gender:	0.5	0.5	0.5	0.0	0.5	0.5	0.4	0.5	0.4	0.2	0.5	0.2	0.1	-0.1
Male	0.6	0.5	0.6	0.8	0.5	0.6	0.5	0.6	0.4	0.2	0.5	0.2	0.2	0.0
Female	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.2	0.1	-0.1
College Plans:	0.4	0.5	0.4	0.0	0.4	0.4	0.0	0.0	0.4	0.2	0.1	0.2	0.1	0.1
None or under 4 years	1.3	1.3	1.7	2.1	1.7	1.6	1.6	1.1	1.7	0.5	1.0	0.6	0.3	-0.3
Complete 4 years	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0
Region:	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.2	0.1	0.1	0.0
Northeast	0.6	0.6	0.4	0.8	0.5	0.4	0.3	0.4	0.2	0.3	0.1	0.1	0.1	0.0
Midwest	0.5	0.4	0.5	0.7	0.5	0.4	0.5	0.5	0.4	0.3	0.4	0.3	0.1	-0.2
South	0.6	0.4	0.6	0.4	0.5	0.7	0.3	0.4	0.5	0.2	0.2	0.1	0.1	0.0
West	0.3	0.6	0.5	0.5	0.4	0.4	0.4	0.6	0.5	0.1	0.4	0.2	0.1	-0.1
Population Density:														
Large MSA	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.1	-0.1
Other MSA	0.5	0.5	0.5	0.8	0.4	0.5	0.3	0.6	0.3	0.1	0.3	0.2	0.1	-0.0
Non-MSA	0.7	0.4	0.7	0.4	0.6	0.6	0.5	0.4	1.0	0.4	0.3	0.1	0.1	0.0
Parental Education: a														
1.0-2.0 (Low)	1.0	1.3	1.7	1.0	0.9	0.6	1.2	0.4	0.5	0.4	0.5	0.6	0.1	-0.5
2.5–3.0	0.5	0.5	0.2	0.7	0.2	0.5	0.5	0.5	0.5	0.3	0.3	0.2	0.1	-0.1
3.5-4.0	0.4	0.4	0.5	0.8	0.4	0.5	0.3	0.3	0.5	0.2	0.2	0.1	0.1	0.0
4.5–5.0	0.3	0.5	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.0
5.5–6.0 (High)	1.0	0.2	0.3	0.4	0.7	0.2	0.3	0.7	0.3	0.1	0.3	0.1	0.2	+0.1
Race/Ethnicity (2-year average): b														
White	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.0
African American	0.4	0.2	0.4	0.4	0.4	0.6	0.5	0.4	0.5	0.4	0.4	0.3	0.2	-0.1
Hispanic	0.8	0.6	0.7	0.8	0.6	0.4	0.6	0.6	0.5	0.3	0.3	0.4	0.2	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; N is one half of N indicated in Table S2. Data based on all forms beginning in 1996. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 54 **HEROIN WITH A NEEDLE:** Trends in <u>Annual Prevalence of Use by Subgroups in <u>Grade 12</u></u>

				Pe	ercentage	e who us	ed in last	: 12 mont	ths			
	1975– 1994	1995	<u>1996</u>	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	_	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	_	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5
Gender:												
Male	_	0.7	0.9	0.9	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6
Female	_	0.3	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.1	0.3
College Plans:												
None or under 4 years	_	0.9	1.2	0.9	0.8	0.5	1.0	0.7	0.9	0.4	1.0	0.9
Complete 4 years	_	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.3	0.4	0.2	0.4
Region:												
Northeast	_	0.4	0.6	0.6	0.7	0.3	0.2	0.7	0.6	0.6	0.6	0.6
Midwest	_	0.5	0.4	8.0	0.4	0.5	0.4	0.2	0.6	0.3	0.2	0.7
South	_	0.4	0.6	0.3	0.5	0.4	0.8	0.1	0.3	0.6	0.4	0.4
West	_	0.8	0.5	0.5	0.1	0.3	0.1	0.4	0.2	0.2	0.5	0.3
Population Density:												
Large MSA	_	0.6	0.7	0.3	0.3	0.4	8.0	0.4	0.5	0.5	0.6	0.4
Other MSA	_	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.3	0.4	0.4	0.6
Non-MSA	_	0.6	0.3	0.7	0.5	0.6	0.3	0.2	0.5	0.4	0.2	0.5
Parental Education: a												
1.0-2.0 (Low)	_	0.7	0.9	1.8	8.0	1.5	1.2	0.7	8.0	0.5	0.2	0.8
2.5–3.0	_	0.6	0.5	0.4	0.5	0.1	0.4	0.3	0.4	0.7	0.6	0.5
3.5-4.0	_	0.2	0.3	0.3	0.4	0.5	0.2	0.1	0.5	0.3	0.3	0.4
4.5–5.0	_	0.5	0.7	0.6	0.4	0.3	0.4	0.4	0.2	0.4	0.4	0.3
5.5–6.0 (High)	_	0.6	0.5	0.5	0.2	0.4	0.2	0.3	0.2	0.3	0.4	0.4
Race/Ethnicity (2-year average): b												
White	_	_	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.3	0.3	0.3
African American	_	_	0.2	0.5	0.4	0.2	0.5	0.4	0.2	0.4	0.5	0.6
Hispanic	_	_	1.0	0.7	0.5	0.6	1.0	0.6	0.4	0.6	0.7	0.8

TABLE 54 (cont.)

HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Percer	ntage who	o used in	last 12 r	nonths					
			0007			0040	0044	0040	0040	2011	2015	0040	0047	0010	2017-2018
	Approximate weighted N =	2006	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13.700	2013 12,600	2014 12,400	2015 12.900	2016 11.800	2017 12.600	2018 13.300	<u>change</u>
Total	Approximate weighted in =	0.5	0.4	0.4	0.3	0.7	0.6	0.4	0.4	0.5	0.3	0.3	0.2	0.3	+0.1
Gender		0.5	0.4	0.4	0.3	0.7	0.6	0.4	0.4	0.5	0.3	0.3	0.2	0.3	+0.1
Male	•	0.7	0.5	0.6	0.4	1.0	0.8	0.5	0.5	0.8	0.4	0.3	0.2	0.3	+0.1
Femal	0	0.7	0.5	0.0	0.4	0.2	0.8	0.3	0.3	0.0	0.4	0.3	0.2	0.3	-0.1
College		0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.2	0.2	0.1	-0.1
_	or under 4 years	1.0	1.0	1.0	0.6	1.6	1.3	1.1	0.7	0.9	0.8	1.0	0.4	1.0	+0.6
	*	0.3				0.4	0.5	0.3	0.7		0.8	0.1	0.4		
	lete 4 years	0.3	0.2	0.2	0.2	0.4	0.5	0.3	0.2	0.4	0.2	0.1	0.2	0.1	-0.1
Region: Northe		0.8	0.7	0.3	0.3	0.6	0.8	0.6	0.3	0.7	0.0	0.1	0.1	0.2	+0.1
Midwe		0.8	0.7	0.3	0.3	0.8	0.6	0.6	0.3	0.7	0.6	0.1	0.1	0.2	+0.1
	est	0.1	•	0.3			0.4	0.6					0.1		
South West			0.4	0.3	0.2	0.8 0.4	1.0	0.2	0.4	0.3	0.3 0.4	0.3	0.4	0.4 0.1	-0.1
	ian Danaitu	0.3	0.2	0.5	0.3	0.4	1.0	0.4	0.5	0.5	0.4	0.3	0.1	0.1	0.0
	tion Density:	0.7	0.0	0.0	0.5	0.7	0.0	٥.	0.0	0.4	0.5	0.0	0.0	0.4	.0.0
Large Other		0.7 0.4	0.6 0.2	0.2	0.5	0.7	0.8	0.5 0.4	0.3	0.4	0.5	0.2	0.2	0.4	+0.3
		•			0.2	0.6	0.7	• • • •		0.6	0.2	0.3	0.3	0.3	0.0
Non-M	al Education: <sup>a</sup>	0.4	0.4	0.2	0.1	0.7	0.3	0.2	0.3	0.4	0.4	0.5	0.2	0.2	0.0
		4.0	4.0	0.0	0.0	4.4		0.4	0.0	4.5	0.0	0.7	0.0		.0.7
	0 (Low)	1.0	1.0	0.9	0.8	1.4	1.4	0.4	0.8	1.5	8.0	0.7	0.6	1.4	+0.7
2.5–3.		0.5	0.4	0.3	0.5	0.9	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.0
3.5–4.		0.5	0.2	0.4	0.2	0.5	0.8	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.0
4.5–5.		0.2	0.2	0.3	0.1	0.5	0.4	0.5	0.3	0.6	0.4	0.1	0.1	0.1	0.0
	0 (High)	0.6	0.3	0.2	0.1	0.3	0.6	0.3	0.0	0.1	0.1	0.2	0.3	0.1	-0.2
	thnicity (2-year average): <sup>b</sup>														
White		0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.3	0.2	0.3	0.3	0.2	0.1	-0.1
	n American	0.7	0.4	0.3	0.3	0.7	0.9	0.5	0.5	8.0	0.6	0.2	0.4	0.6	+0.2
Hispar	nic	0.9	0.7	0.4	0.3	0.5	0.6	0.2	0.3	0.6	0.7	0.4	0.3	0.4	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms; N is three sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 55
HEROIN WITHOUT A NEEDLE: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

				Pe	ercentage	who use	ed in last	12 mont	hs			
	1991-	1005	4000	4007	4000	4000	2000	2004	2002	2002	2004	2005
	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>
Approximate weighted N =	_	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	_	0.8	1.0	8.0	0.8	0.9	0.7	0.6	0.6	0.6	0.6	0.5
Gender:												
Male	_	1.0	0.9	0.9	0.9	0.8	0.5	0.6	0.6	0.6	0.4	0.4
Female	_	0.6	0.9	0.7	8.0	0.8	8.0	0.6	0.7	0.6	0.7	0.5
College Plans:												
None or under 4 years	_	3.2	2.1	2.2	3.4	2.7	2.4	1.9	1.7	2.3	2.5	1.6
Complete 4 years	_	0.5	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4
Region:												
Northeast	_	0.9	1.1	8.0	0.7	0.7	0.6	0.7	0.3	0.5	0.6	0.5
Midwest	_	1.0	1.0	0.9	0.9	1.0	8.0	0.6	0.7	0.8	0.4	0.3
South	_	0.8	0.8	0.7	0.9	0.9	0.5	0.6	0.7	0.7	0.6	0.6
West	_	0.7	1.1	1.1	0.9	0.9	8.0	0.5	0.7	0.5	0.7	0.4
Population Density:												
Large MSA	_	0.9	1.0	0.6	0.5	0.8	0.7	0.5	0.6	0.6	0.7	0.4
Other MSA	_	0.8	1.0	0.9	1.0	0.8	8.0	8.0	0.5	0.6	0.6	0.5
Non-MSA	_	0.9	0.9	1.0	1.0	1.1	0.5	0.4	8.0	0.7	0.3	0.6
Parental Education: a												
1.0–2.0 (Low)	_	1.9	1.5	1.3	2.4	1.7	1.1	1.3	0.5	1.4	1.5	0.2
2.5–3.0	_	0.7	0.9	1.1	0.7	1.0	1.3	0.6	8.0	0.6	0.6	0.9
3.5-4.0	_	0.5	1.2	0.5	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.5
4.5–5.0	_	0.8	0.8	0.8	0.6	0.8	0.5	0.5	0.6	0.4	0.4	0.3
5.5-6.0 (High)	_	0.7	0.8	1.0	1.1	1.1	0.3	0.4	0.4	0.5	0.3	0.1
Race/Ethnicity (2-year average): b												
White	_	_	1.0	1.0	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4
African American	_	_	0.2	0.2	0.4	0.5	0.3	0.3	0.3	0.3	0.5	0.4
Hispanic	_		1.5	1.2	1.1	1.4	1.1	0.8	1.0	1.0	1.0	0.9

TABLE 55 (cont.) **HEROIN WITHOUT A NEEDLE:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

					Percer	itage who	o used in	last 12 r	nonths					
	0000	0007	0000	0000	0040	0044	0040	0040	004.4	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 16 500	2007 16,100	2008 15,700	2009 15,000	2010 15,300	2011 16.000	2012 15,100	2013 14.600	2014 14,600	2015 14,400	2016 16,900	2017 15,300	2018 14.000	<u>change</u>
Total	0.5	0.5	0.6	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.0
Gender:	0.5	0.5	0.0	0.4	0.5	0.4	0.5	0.5	0.2	0.2	0.2	0.5	0.2	0.0
Male	0.5	0.4	0.6	0.4	0.5	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.3	+0.1
Female	0.6	0.5	0.6	0.4	0.5	0.5	0.2	0.3	0.2	0.2	0.1	0.2	0.1	-0.2 s
College Plans:	0.0	0.5	0.0	0.4	0.0	0.0	0.5	0.0	0.2	0.2	0.1	0.5	0.1	0.2 3
None or under 4 years	2.3	1.9	2.6	1.9	1.8	1.8	1.1	1.3	0.5	0.4	0.9	1.3	0.8	-0.4
Complete 4 years	0.4	0.3	0.4	0.2	0.4	0.3	0.2	0.3	0.2	0.4	0.3	0.1	0.0	0.0
Region:	0.4	0.5	0.4	0.2	0.4	0.5	0.2	0.5	0.2	0.1	0.1	0.1	0.1	0.0
Northeast	0.2	0.2	0.4	0.3	0.4	0.3	0.1	0.3	0.1	0.1	0.1	0.2	0.1	-0.1
Midwest	0.7	0.5	0.8	0.3	0.4	0.5	0.1	0.3	0.1	0.2	0.1	0.2	0.1	-0.1
South	0.6	0.4	0.7	0.3	0.5	0.4	0.3	0.4	0.1	0.2	0.3	0.2	0.3	+0.1
West	0.5	0.7	0.5	0.7	0.6	0.5	0.4	0.3	0.4	0.0	0.1	0.5	0.4	-0.2
Population Density:	0.0	0.7	0.0	0.7	0.0	0.0	0.4	0.0	0.4	0.0	0.1	0.0	0.4	0.2
Large MSA	0.4	0.3	0.8	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4	+0.1
Other MSA	0.5	0.5	0.5	0.5	0.6	0.5	0.2	0.3	0.2	0.2	0.1	0.3	0.2	-0.1
Non-MSA	0.7	0.7	0.4	0.3	0.5	0.4	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.0
Parental Education: <sup>a</sup>	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	-		•••				-		• • • • • • • • • • • • • • • • • • • •		
1.0–2.0 (Low)	1.4	1.0	1.6	1.1	1.4	0.7	0.7	0.9	0.5	0.3	0.3	0.5	0.6	+0.1
2.5–3.0	0.6	0.4	0.8	0.4	0.6	1.0	0.4	0.4	0.2	0.2	0.3	0.3	0.4	+0.1
3.5–4.0	0.6	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.2	-0.1
4.5–5.0	0.4	0.7	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1	+0.1
5.5–6.0 (High)	0.3	0.3	0.8	0.2	0.5	0.2	0.1	0.4	0.2	0.0	0.0	0.2	0.1	-0.1
Race/Ethnicity (2-year average): b														
White	0.5	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.0
African American	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	+0.1
Hispanic	0.6	0.7	0.8	0.8	0.8	0.8	0.6	0.5	0.5	0.2	0.1	0.3	0.5	+0.2 s

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; N is one half of N indicated in Table S1. Data based on all forms beginning in 1996. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 56
HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

				Pe	rcentage	who use	ed in last	12 mont	hs			
	1991–											
	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>
Approximate weighted N =	_	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	_	8.0	0.9	1.1	1.0	1.1	1.1	0.7	8.0	0.5	0.7	0.7
Gender:												
Male	_	0.9	1.1	1.2	1.2	1.3	1.1	8.0	0.9	0.6	8.0	0.7
Female	_	0.7	0.7	1.0	8.0	1.0	1.0	0.6	0.6	0.4	0.5	0.6
College Plans:												
None or under 4 years	_	1.7	1.8	2.1	1.8	2.5	2.7	1.7	2.2	1.4	2.2	2.3
Complete 4 years	_	0.6	0.7	1.0	0.9	8.0	8.0	0.5	0.6	0.4	0.5	0.4
Region:												
Northeast	_	0.5	0.7	1.0	1.4	1.6	1.2	8.0	0.7	0.4	0.9	0.9
Midwest	_	0.5	8.0	1.2	0.7	1.0	1.2	8.0	0.9	0.5	0.5	0.8
South	_	1.1	1.1	1.2	1.0	1.0	1.3	0.7	0.5	0.7	0.7	0.6
West	_	0.9	0.9	1.0	0.8	0.8	0.5	0.5	1.2	0.4	0.5	0.5
Population Density:												
Large MSA	_	0.9	0.9	1.3	0.8	0.9	1.5	0.8	0.6	0.4	0.6	0.7
Other MSA	_	0.7	1.0	1.0	1.1	1.2	1.0	0.7	8.0	0.6	8.0	0.7
Non-MSA	_	0.9	0.7	1.1	1.0	1.2	0.9	0.7	1.0	0.6	0.5	0.6
Parental Education: <sup>a</sup>												
1.0–2.0 (Low)	_	1.7	8.0	0.9	1.2	1.8	1.1	0.9	1.5	0.9	1.0	1.1
2.5–3.0	_	0.6	0.7	1.0	1.0	1.1	1.1	0.9	0.7	0.7	0.7	0.9
3.5–4.0	_	0.9	1.0	1.3	1.2	0.9	1.3	0.5	8.0	0.4	0.7	0.6
4.5–5.0	_	0.5	8.0	1.1	1.0	1.0	1.0	0.6	0.5	0.5	0.5	0.6
5.5–6.0 (High)	_	0.9	1.1	1.0	0.7	1.1	1.1	0.6	1.1	0.1	0.4	0.5
Race/Ethnicity (2-year average): b												
White	_	_	0.9	1.0	1.1	1.1	1.2	1.0	8.0	0.7	0.6	0.7
African American	_	_	0.1	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3
Hispanic	_	_	0.8	1.1	1.4	1.3	0.9	0.8	8.0	0.8	0.9	1.0

TABLE 56 (cont.) **HEROIN WITHOUT A NEEDLE:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

					Percen	tage who	used in	last 12 n	nonths					
Approximate weighted N =	2006 16,200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	2017-2018 <u>change</u>
Total	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0
Gender:														
Male	0.6	0.6	0.8	0.8	0.6	0.5	0.4	0.5	0.3	0.3	0.2	0.2	0.1	0.0
Female	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.3	0.1	0.1	0.1	0.0
College Plans:														
None or under 4 years	2.0	1.1	1.6	2.0	2.2	1.6	1.8	1.2	1.3	1.2	0.7	0.4	0.4	0.0
Complete 4 years	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0
Region:														
Northeast	8.0	0.7	0.6	0.5	0.5	0.6	0.3	0.4	0.2	0.4	0.1	0.2	0.1	-0.1
Midwest	0.6	0.5	8.0	0.7	0.6	0.2	0.4	0.2	0.2	0.3	0.3	0.2	0.0	-0.2
South	0.6	0.6	0.6	0.4	0.5	0.6	0.5	0.3	0.5	0.3	0.1	0.1	0.2	0.0
West	0.5	0.5	0.4	8.0	0.6	0.5	0.5	0.6	0.3	0.3	0.1	0.1	0.1	0.0
Population Density:														
Large MSA	0.5	0.7	0.5	0.4	0.6	0.5	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.0
Other MSA	0.6	0.5	0.6	8.0	0.5	0.4	0.3	0.5	0.2	0.2	0.1	0.1	0.1	-0.1
Non-MSA	8.0	0.6	8.0	0.3	0.6	0.5	0.6	0.3	0.6	0.6	0.2	0.2	0.2	0.0
Parental Education: a														
1.0–2.0 (Low)	1.2	0.9	1.1	1.1	0.9	0.7	1.3	0.5	0.3	8.0	0.4	0.2	0.1	0.0
2.5–3.0	0.6	0.6	0.4	0.6	0.5	0.7	0.6	0.7	0.4	0.2	0.1	0.1	0.0	-0.1
3.5–4.0	0.5	0.6	8.0	0.7	0.5	0.4	0.4	0.1	0.3	0.4	0.1	0.2	0.2	-0.1
4.5–5.0	0.5	0.5	0.5	0.3	0.6	0.3	0.3	0.2	0.3	0.1	0.1	0.0	0.0	0.0
5.5-6.0 (High)	0.4	0.3	0.4	0.5	0.5	0.4	0.1	0.7	0.4	0.4	0.2	0.1	0.2	+0.2
Race/Ethnicity (2-year average): b														
White	0.7	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.0
African American	0.4	0.3	0.4	0.3	0.2	0.5	0.6	0.5	0.4	0.4	0.1	0.0	0.1	0.0
Hispanic	0.9	0.8	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.3	0.2	0.2	0.2	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; N is one half of N indicated in Table S2. Data based on all forms beginning in 1996. Beginning in 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 57 **HEROIN WITHOUT A NEEDLE:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

				Pe	ercentage	who us	ed in last	12 mont	ths			
	1975-											
	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
Approximate weighted N =	_	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	_	1.0	1.0	1.2	8.0	1.0	1.6	0.8	0.8	8.0	0.7	0.8
Gender:												
Male	_	1.4	1.3	1.4	1.0	1.3	1.8	1.3	0.9	0.9	0.9	1.1
Female	_	0.7	0.7	0.9	0.7	8.0	1.5	0.4	0.7	0.7	0.4	0.5
College Plans:												
None or under 4 years	_	1.4	1.7	1.6	1.3	1.5	2.7	1.3	2.2	0.8	1.5	1.7
Complete 4 years	_	0.9	8.0	1.0	0.6	1.0	1.3	0.7	0.4	0.7	0.4	0.6
Region:												
Northeast	_	0.9	1.9	1.9	1.1	1.3	0.9	1.3	1.1	0.6	1.1	1.1
Midwest	_	0.7	0.5	1.0	0.6	0.7	1.6	1.1	0.9	0.7	0.4	0.7
South	_	1.4	0.9	1.1	1.1	1.2	1.8	0.3	0.9	1.2	0.5	0.7
West	_	8.0	0.7	0.6	0.3	1.0	2.0	0.9	0.4	0.3	1.0	0.7
Population Density:												
Large MSA	_	1.3	1.1	1.2	0.9	0.9	2.5	1.0	0.6	8.0	8.0	0.7
Other MSA	_	8.0	1.2	1.1	0.9	1.2	1.2	0.8	1.1	0.7	0.9	0.7
Non-MSA	_	1.0	0.4	1.2	0.4	8.0	1.4	0.7	0.6	1.0	0.2	1.0
Parental Education: a												
1.0-2.0 (Low)	_	1.0	8.0	1.7	0.5	2.0	2.7	1.5	1.8	1.0	1.1	1.1
2.5–3.0	_	1.1	0.6	0.8	1.1	1.1	1.8	0.5	0.9	0.9	8.0	1.0
3.5-4.0	_	0.9	1.1	1.3	0.9	8.0	1.7	0.8	1.0	0.7	0.6	0.9
4.5–5.0	_	1.2	1.2	1.2	8.0	1.1	1.6	1.1	0.2	8.0	0.7	0.5
5.5-6.0 (High)	_	0.6	1.0	1.0	0.5	1.0	0.6	0.8	8.0	0.7	0.3	0.5
Race/Ethnicity (2-year average): b												
White	_	_	1.1	1.3	1.2	1.1	1.4	1.3	1.0	0.8	0.7	0.6
African American	_	_	0.2	0.3	0.3	0.1	0.4	0.4	0.4	0.6	0.7	0.5
Hispanic	_	_	0.9	0.6	0.4	0.6	1.8	1.3	0.5	0.7	0.7	0.9

TABLE 57 (cont.) **HEROIN WITHOUT A NEEDLE:** Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

					Percer	tage who	used in	last 12 r	nonths					
	2000	2007	2000	2000	2040	2044	2042	2042	204.4	2045	2046	2047	2040	2017-2018
Approximate weighted N =	2006 14 200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	<u>change</u>
Total	0.6	1.0	0.5	0.6	0.8	0.7	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.0
Gender:	0.0	1.0	0.5	0.0	0.0	0.7	0.4	0.4	0.5	0.4	0.5	0.2	0.2	0.0
Male	0.8	1.2	0.7	0.8	1.1	0.9	0.5	0.5	0.8	0.5	0.2	0.1	0.2	+0.1
Female	0.8	0.6	0.7	0.8	0.4	0.5	0.3	0.3	0.8	0.5	0.2	0.1	0.2	-0.1
College Plans:	0.3	0.0	0.5	0.4	0.4	0.5	0.2	0.3	0.2	0.1	0.3	0.2	0.1	-0.1
None or under 4 years	1.2	2.6	1.0	0.7	1.8	1.1	0.8	0.8	0.7	0.8	0.5	0.4	0.6	+0.2
•	0.4	0.7	0.3	0.7	0.4	0.6	0.8	0.6	0.7	0.8	0.3	0.4	0.0	
Complete 4 years	0.4	0.7	0.3	0.5	0.4	0.6	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.0
Region:	4.0	4.4	0.7	0.7	4.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	.0.4
Northeast	1.0	1.1	0.7	0.7	1.3	0.8	0.2	0.4	0.9	0.3	0.1	0.0	0.2	+0.1
Midwest	0.2	0.9	0.3	0.7	0.7	0.9	0.3	0.3	0.5	0.6	0.2	0.0	0.4	+0.4 s
South	0.7	1.0	0.3	0.6	0.7	0.4	0.1	0.4	0.3	0.3	0.3	0.4	0.2	-0.2
West	0.6	0.9	0.8	0.7	0.6	0.9	0.8	8.0	0.4	0.3	0.3	0.2	0.1	-0.1
Population Density:														
Large MSA	8.0	0.9	0.5	0.7	1.1	8.0	0.2	0.2	0.4	0.3	0.3	0.1	0.3	+0.1
Other MSA	0.4	0.9	0.6	0.6	8.0	0.7	0.4	0.5	0.6	0.4	0.2	0.3	0.1	-0.1
Non-MSA	0.5	1.2	0.3	0.5	0.5	0.4	0.5	0.6	0.2	0.4	0.3	0.2	0.4	+0.2
Parental Education: a														
1.0-2.0 (Low)	1.2	2.2	0.7	1.1	8.0	1.0	0.1	1.0	0.9	1.0	0.6	0.4	0.3	-0.1
2.5–3.0	0.5	0.9	0.5	0.7	0.9	0.4	0.5	0.7	0.3	0.4	0.2	0.1	0.4	+0.3
3.5-4.0	0.5	0.8	0.3	0.9	1.1	1.0	0.2	0.3	0.2	0.2	0.2	0.3	0.1	-0.2
4.5-5.0	0.4	8.0	0.6	0.3	0.5	0.7	0.5	0.3	0.7	0.3	0.1	0.1	0.1	0.0
5.5-6.0 (High)	0.7	0.7	0.6	0.2	0.5	0.4	0.2	0.3	0.5	0.3	0.3	0.2	0.2	-0.1
Race/Ethnicity (2-year average): b														
White	0.6	0.8	0.8	0.6	0.7	0.8	0.6	0.3	0.3	0.3	0.2	0.2	0.1	0.0
African American	0.4	0.4	0.4	0.3	0.7	0.8	0.4	0.3	0.7	0.8	0.3	0.3	0.4	+0.1
Hispanic	1.0	1.1	0.7	0.4	0.6	0.7	0.3	0.3	0.6	0.6	0.4	0.2	0.2	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .01. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms; N is three sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 58

NARCOTICS OTHER THAN HEROIN: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Pe	rcentage	who us	ed in las	t 12 mon	ths					
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	1980	<u>1981</u>	1982	1983	1984	<u>1985</u>	1986	<u>1987</u>	1988	1989	<u>1990</u>
Approximate weighted N =	9,400	-,	,	17,800	15,500	15,900	17,500	17,700	16,300	-,	-,	15,200	16,300	16,300		15,200
Total	5.7	5.7	6.4	6.0	6.2	6.3	5.9	5.3	5.1	5.2	5.9	5.2	5.3	4.6	4.4	4.5
Gender:																
Male	6.6	6.8	7.3	6.9	7.3	7.1	6.5	6.0	6.0	6.2	6.8	5.9	5.6	5.1	4.9	5.0
Female	4.8	4.7	5.4	5.1	5.1	5.4	5.3	4.6	4.2	4.2	5.1	4.6	4.9	4.1	3.8	3.9
College Plans:																
None or under 4 years		6.8	8.0	6.8	7.3	7.4	7.2	6.1	6.1	6.1	6.6	6.7	6.1	4.8	5.3	5.7
Complete 4 years	_	4.6	4.7	4.9	5.0	5.1	4.8	4.6	4.3	4.3	5.4	4.3	4.8	4.6	3.9	4.0
Region:																
Northeast	6.1	6.5	6.6	6.8	7.0	5.7	7.2	5.6	5.6	6.7	7.3	5.7	6.0	3.7	4.7	4.1
Midwest	6.2	6.2	7.5	6.7	6.1	7.6	6.2	5.5	5.3	4.8	6.3	5.8	5.2	4.4	5.7	4.6
South	4.9	5.0	5.2	4.5	5.2	5.0	4.1	4.5	4.4	4.5	3.8	4.2	4.3	4.7	3.2	4.1
West	5.4	5.0	6.0	6.7	7.1	6.8	7.2	6.2	5.2	5.3	7.1	5.4	6.1	5.7	4.9	5.3
Population Density:																
Large MSA	7.3	6.7	6.7	6.9	7.3	6.9	6.9	5.2	6.0	5.2	6.0	4.8	5.2	4.0	4.1	3.8
Other MSA	5.5	6.1	6.3	5.9	6.3	7.0	6.3	5.7	5.3	5.1	6.4	5.6	5.3	5.2	4.9	4.6
Non-MSA	4.8	4.6	6.2	5.4	5.3	4.8	4.8	4.9	4.1	5.2	5.2	5.0	5.2	4.4	3.8	4.8
Parental Education: <sup>b</sup>																
1.0-2.0 (Low)	5.4	5.0	5.1	5.0	5.2	5.2	4.8	4.8	4.8	4.7	4.5	4.7	4.1	3.9	3.6	3.8
2.5-3.0	5.1	5.9	6.4	6.2	5.9	5.8	5.6	4.9	5.0	5.2	5.5	5.0	4.4	4.3	4.0	4.1
3.5-4.0	4.2	6.3	6.7	6.0	6.3	6.9	6.6	5.2	4.5	5.1	6.5	6.0	5.6	4.3	4.6	4.6
4.5–5.0	6.4	6.3	6.6	6.4	6.7	7.0	6.3	6.4	6.0	5.6	6.4	4.8	5.4	5.4	4.2	4.7
5.5-6.0 (High)	6.5	6.5	7.9	6.1	7.8	6.8	6.8	7.1	5.3	4.9	6.8	5.4	7.8	5.6	6.4	5.7
Race/Ethnicity (2-year average): c																
White	_	_	6.6	6.7	6.6	6.8	6.7	6.2	5.8	5.7	6.3	6.3	6.0	5.8	5.3	5.2
African American	_	_	2.2	2.0	1.8	1.7	1.9	1.8	1.7	1.6	1.6	1.7	1.6	1.5	1.5	1.4
Hispanic		_	3.8	3.5	3.5	3.7	4.3	4.1	4.0	4.2	3.6	3.0	2.4	2.2	2.5	2.4

TABLE 58 (cont.)

NARCOTICS OTHER THAN HEROIN: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Percen	tage wh	o used ir	last 12	months					
Approximate weighted N =	1991 15,000	<u>1992</u> 15,800	1993 16,300	1994 15,400	1995 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 <sup>d</sup> 12,900	2003 <sup>d</sup> 14,600	2004 14,600	2005 14,700
Total	3.5	3.3	3.6	3.8	4.7	5.4	6.2	6.3	6.7	7.0	6.7‡	9.4	9.3	9.5	9.0
Gender:															
Male	3.9	3.3	3.6	4.3	5.6	6.4	7.1	7.4	8.2	8.0	8.0‡	11.6	10.7	10.9	10.7
Female	3.1	3.3	3.3	3.4	3.8	4.4	5.4	5.1	5.2	5.9	5.6‡	7.4	7.8	8.1	7.4
College Plans:															
None or under 4 years	3.8	4.3	4.2	4.9	5.6	7.0	8.2	8.4	7.0	7.8	7.5‡	12.4	12.3	12.4	12.2
Complete 4 years	3.5	3.0	3.3	3.5	4.4	4.9	5.7	5.5	6.6	6.6	6.4‡	8.8	8.4	8.7	8.3
Region:															
Northeast	3.2	3.7	4.6	3.5	4.3	6.1	7.8	6.5	6.2	6.7	7.2‡	10.6	9.3	9.9	8.3
Midwest	4.2	3.6	3.2	4.7	5.2	6.0	6.1	6.5	7.5	7.2	7.8‡	8.8	9.1	8.7	10.7
South	2.7	2.7	3.2	3.8	4.5	5.1	6.1	6.5	7.5	6.6	5.7‡	9.3	8.0	9.1	8.6
West	4.4	3.5	4.0	3.1	4.7	4.1	4.7	5.2	4.7	7.5	6.5‡	9.5	11.4	11.1	8.3
Population Density:															
Large MSA	3.3	3.5	3.1	4.1	4.8	4.6	4.6	5.2	5.4	7.0	8.4‡	8.9	7.4	8.1	8.4
Other MSA	3.9	3.1	3.7	3.7	4.7	5.4	7.2	6.8	7.4	7.2	5.6‡	10.3	10.3	10.7	9.3
Non-MSA	3.1	3.6	3.7	3.6	4.7	6.0	6.0	6.5	6.8	6.6	6.9‡	8.5	9.7	8.9	9.1
Parental Education: b															
1.0-2.0 (Low)	3.8	3.5	3.8	3.0	4.0	4.5	4.7	4.7	4.6	4.6	5.1‡	6.2	7.9	6.8	5.2
2.5–3.0	3.2	3.5	2.9	3.8	4.2	5.6	5.3	5.9	5.9	6.4	6.4‡	8.9	9.3	8.8	9.5
3.5–4.0	3.7	3.2	3.7	3.4	4.4	5.5	6.5	6.8	7.2	7.3	7.1‡	10.4	9.8	10.8	10.5
4.5–5.0	3.6	3.4	3.7	4.3	5.5	5.4	6.8	6.2	7.4	7.9	7.0‡	10.3	9.5	10.5	9.3
5.5–6.0 (High)	4.1	3.2	4.5	4.8	5.5	5.6	7.6	6.6	7.4	7.5	7.0‡	8.7	8.8	8.8	7.6
Race/Ethnicity (2-year average): c															
White	4.7	4.1	4.1	4.3	5.0	5.9	7.1	7.6	7.7	8.3	8.5	10.3‡	10.2 <sup>f</sup>	11.2	11.2
African American	1.1	0.9	1.0	1.5	1.4	1.2	1.8	2.4	2.0	1.7	1.8	1.9‡	2.1 <sup>f</sup>	2.7	2.5
Hispanic	2.3	2.1	2.3	2.2	2.5	3.7	3.1	2.8	3.6	4.6	4.5	4.3‡	5.2 <sup>f</sup>	5.5	5.3

TABLE 58 (cont.)

NARCOTICS OTHER THAN HEROIN: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

Dercentors who used in last 12 months

					Percen	tage who	o used ir	last 12	months					
	2006	2007 <sup>e</sup>	2008	2009	2010	2011	2012	2013 <sup>9</sup>	2014	2015	2016	2017	<u>2018</u>	2017-2018 <u>change</u>
Approximate weighted N =	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	9.0	9.2	9.1	9.2	8.7	8.7	7.9	7.1	6.1	5.4	4.8	4.2	3.4	-0.8 s
Gender:														
Male	10.3	10.9	10.6	10.7	9.9	9.6	9.3	8.4	7.2	6.1	5.6	5.3	4.4	-0.9
Female	7.8	7.6	7.9	7.9	7.4	7.8	6.5	5.6	5.0	4.6	3.8	3.2	2.2	-1.0 s
College Plans:														
None or under 4 years	12.4	12.9	13.1	11.0	12.3	13.2	9.7	10.1	7.3	6.8	4.9	6.0	4.6	-1.5
Complete 4 years	8.1	8.3	8.3	8.8	7.8	7.8	7.4	6.3	5.8	5.0	4.6	3.8	3.0	-0.8 s
Region:														
Northeast	10.1	9.3	9.7	9.3	9.2	8.3	6.3	7.1	4.0	3.9	3.1	3.0	2.8	-0.2
Midwest	9.9	10.5	10.0	11.6	9.0	9.7	9.1	6.8	6.3	5.0	5.6	3.7	3.5	-0.2
South	7.9	8.3	8.3	8.0	8.4	7.3	6.1	7.1	6.4	5.5	4.8	4.9	3.2	-1.7 ss
West	8.9	9.2	9.0	8.2	8.4	10.2	10.0	7.4	7.1	6.6	5.0	4.5	4.0	-0.4
Population Density:														
Large MSA	8.1	7.9	7.9	7.9	8.8	7.6	8.4	6.4	4.6	4.2	4.4	3.4	2.8	-0.5
Other MSA	9.0	9.3	9.0	9.4	9.0	9.0	7.4	7.9	7.4	5.9	5.0	4.6	3.6	-1.0
Non-MSA	10.4	10.7	10.7	10.6	7.7	9.6	8.3	6.1	4.8	6.1	4.7	4.9	4.0	-0.9
Parental Education: b														
1.0–2.0 (Low)	6.1	7.1	7.1	6.1	5.2	6.6	7.2	5.5	5.8	5.7	4.0	3.3	3.2	-0.2
2.5–3.0	9.5	8.8	9.2	9.9	9.4	8.5	9.0	7.6	6.8	4.7	4.0	5.1	3.9	-1.2
3.5–4.0	10.3	9.5	9.9	9.9	10.0	10.1	8.4	8.3	6.1	6.1	5.1	4.6	3.7	-0.9
4.5–5.0	9.1	9.9	9.0	9.9	8.1	8.1	8.0	6.6	5.8	5.3	5.2	3.7	3.1	-0.6
5.5–6.0 (High)	8.0	9.5	9.7	8.2	8.3	9.2	6.0	6.2	6.3	5.7	5.7	4.6	3.1	-1.5
Race/Ethnicity (2-year average): c														
White	11.2	11.5	11.7	11.7	11.1	10.6	10.0	8.5	7.0	6.0	5.6	5.0	4.2	-0.7 ss
African American	2.4	2.6	2.7	2.8	4.0	4.1	3.4	4.0	4.7	4.6	3.7	3.2	2.8	-0.3
Hispanic	5.0	4.5	4.2	4.7	5.1	5.4	5.5	5.7	5.4	4.1	3.9	3.8	2.9	-0.9 s

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>°</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>d</sup>In 2002 the question text was changed in half of the questionnaire forms. In the list of examples of narcotics other than heroin, Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; N is one half of N indicated. In 2003 the remaining forms were changed to the new wording. Beginning in 2003, the data are based on all forms.

eIn 2007, in the list of narcotics other than heroin, Dilaudid was replaced with Ultram.

<sup>&</sup>lt;sup>1</sup>The 2003 data comprise half of the 2002 sample data double-weighted and all of the 2003 sample data.

<sup>&</sup>lt;sup>9</sup>In 2013 the list of examples was changed on one form: MS Contin, Roxycodone, Hydrocodone (Lortab, Lorcet, Norco), Suboxone, Tylox, and Tramadol were added to the list. An examination of the data did not show any effect from the wording change.

TABLE 59

OXYCONTIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

							Pe	ercentage	e who us	ed in las	t 12 mon	ths							2017-
	1991–																		2018
	2001	2002	2003	2004	2005	2006	2007	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	1.3	1.7	1.7	1.8	2.6	1.8	2.1	2.0	2.1	1.8	1.6	2.0	1.0	8.0	0.9	8.0	8.0	-0.1
Gender:																			
Male	_	1.9	1.6	1.8	1.9	2.8	1.7	2.3	2.7	2.1	1.7	1.8	1.8	0.9	1.2	1.2	1.0	8.0	-0.2
Female	_	0.9	1.7	1.6	1.7	2.2	2.0	1.8	1.4	2.2	1.8	1.2	2.2	1.2	0.6	0.7	0.6	0.7	+0.1
College Plans:																			
None or under 4 years	_	4.3	7.5	6.9	6.8	8.8	5.1	6.1	8.4	6.4	7.7	8.2	7.6	3.8	3.4	3.3	3.2	2.5	-0.7
Complete 4 years	_	1.0	1.1	1.2	1.2	1.9	1.5	1.8	1.6	1.8	1.3	1.1	1.6	8.0	0.6	0.7	0.6	0.5	-0.1
Region:																			
Northeast	_	1.0	1.2	1.1	1.7	1.6	1.1	8.0	1.2	1.6	1.3	8.0	3.0	8.0	0.3	0.5	0.2	0.6	+0.4
Midwest	_	1.7	1.7	1.3	2.4	3.2	2.0	1.4	2.2	2.2	1.9	0.9	1.0	0.6	0.4	0.8	0.7	0.2	-0.5
South	_	1.5	2.1	2.2	2.0	2.4	2.0	2.9	2.1	2.5	1.8	2.6	1.9	1.1	1.4	1.2	0.9	0.9	0.0
West	_	0.9	1.3	1.8	1.0	3.1	1.6	2.3	2.2	1.8	2.2	1.0	2.4	1.5	0.7	0.7	1.2	1.2	0.0
Population Density:																			
Large MSA	_	1.2	1.1	0.9	1.1	1.3	0.9	1.7	0.7	1.3	8.0	1.8	1.4	8.0	0.6	0.9	0.5	8.0	+0.3
Other MSA	_	1.4	1.7	2.6	2.3	3.1	2.2	2.2	2.3	2.3	2.7	1.3	2.0	1.2	1.3	8.0	1.0	0.9	-0.2
Non-MSA	_	1.5	2.5	1.1	1.8	3.2	2.3	2.6	2.8	2.9	1.5	1.7	2.7	0.9	0.3	1.0	0.7	0.4	-0.3
Parental Education: b																			
1.0–2.0 (Low)	_	2.9	4.0	3.5	3.7	3.6	2.0	4.0	6.1	3.0	3.8	1.4	1.9	1.6	1.2	1.9	2.5	0.8	-1.7 s
2.5–3.0	_	2.0	2.3	2.1	2.9	3.4	2.2	2.3	2.1	2.7	2.6	2.7	1.7	1.3	1.1	1.2	0.3	0.7	+0.4
3.5–4.0	_	1.0	1.9	2.2	2.5	2.4	2.2	2.3	1.7	2.5	2.4	1.2	3.0	1.0	0.9	1.0	1.2	0.6	-0.6
4.5–5.0	_	0.9	0.7	1.3	0.7	2.0	1.6	1.7	1.7	1.3	1.1	1.2	1.9	1.0	0.7	0.5	0.4	1.1	+0.6
5.5-6.0 (High)	_	1.3	1.6	0.7	0.8	2.2	0.8	1.7	1.0	1.1	0.5	1.4	1.4	0.5	0.3	0.5	0.6	0.3	-0.3
Race/Ethnicity (2-year average): c																			
White	_	_	1.6	1.7	1.7	2.3	2.5	2.3	2.2	2.1	1.9	1.5	1.3	1.2	1.1	0.7	0.5	0.6	+0.1
African American	_	_	0.9	0.6	1.0	1.4	1.2	1.4	1.6	1.5	1.3	1.5	1.8	1.0	0.6	1.5	1.8	1.4	-0.4
Hispanic	_	_	1.3	2.8	2.6	2.4	2.3	1.5	1.8	2.2	2.6	2.1	1.9	1.9	1.0	1.0	0.9	0.7	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 60

OXYCONTIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

							Pe	ercentage	e who us	ed in las	t 12 mon	ths							2017-
	1991–																		2018
	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	3.0	3.6	3.5	3.2	3.8	3.9	3.6	5.1	4.6	3.9	3.0	3.4	3.0	2.6	2.1	2.2	2.2	0.0
Gender:																			
Male	_	3.6	4.3	3.8	3.4	3.7	4.2	3.8	5.6	4.9	3.8	3.2	4.7	2.8	2.9	2.1	1.9	2.5	+0.6
Female	_	2.4	2.9	3.1	3.0	4.0	3.5	3.5	4.5	4.1	4.0	2.8	2.2	2.8	2.3	2.1	2.4	1.7	-0.7
College Plans:																			
None or under 4 years	_	6.5	10.8	7.2	8.0	11.0	8.8	10.2	12.6	13.9	11.8	9.1	6.1	6.9	7.5	6.5	4.6	3.7	-0.9
Complete 4 years	_	2.5	2.5	3.0	2.6	2.9	3.2	2.9	4.2	3.5	2.9	2.4	3.1	2.5	2.1	1.7	1.9	1.9	-0.1
Region:																			
Northeast	_	3.6	3.7	4.6	3.8	3.1	2.8	3.2	3.6	4.4	4.5	3.0	3.1	1.0	2.4	1.3	1.2	1.6	+0.4
Midwest	_	2.1	2.9	2.5	3.5	4.1	4.3	3.9	5.8	4.9	4.2	2.0	4.2	2.3	2.7	1.9	1.8	1.9	+0.1
South	_	3.7	4.2	4.8	3.6	4.4	4.7	4.1	5.4	4.8	4.0	3.5	2.7	3.6	2.5	2.6	3.0	2.1	-0.9
West	_	2.6	3.5	1.9	1.6	3.3	3.3	3.0	5.2	4.2	2.9	3.4	3.7	4.2	3.0	2.4	2.1	3.1	+1.0
Population Density:																			
Large MSA	_	2.0	2.3	2.1	2.8	3.4	3.5	2.5	4.5	4.2	2.9	2.3	3.2	2.6	2.0	1.5	1.9	2.3	+0.4
Other MSA	_	3.3	3.6	3.7	2.7	3.3	3.5	4.1	5.8	4.3	3.6	2.6	3.4	2.5	2.8	2.0	2.1	2.1	0.0
Non-MSA	_	3.7	5.7	5.1	4.9	5.8	5.4	4.1	4.4	5.7	5.7	4.9	3.6	4.7	3.2	3.6	2.9	2.2	-0.7
Parental Education: <sup>b</sup>																			
1.0–2.0 (Low)	_	6.5	5.9	3.7	3.3	6.9	3.9	3.1	6.5	7.9	5.5	4.4	5.2	2.5	4.3	1.4	2.3	5.5	+3.2 s
2.5–3.0	_	3.8	3.9	4.0	4.8	5.3	5.9	5.1	6.7	6.9	5.4	4.1	4.4	3.1	2.8	2.3	2.7	3.7	+0.9
3.5-4.0	_	2.0	4.1	4.1	3.0	4.3	3.5	3.6	5.5	4.0	4.3	3.9	3.2	3.8	4.0	2.8	2.3	1.4	-0.9
4.5–5.0	_	1.7	2.9	2.6	2.6	2.3	3.4	3.2	3.9	2.9	2.4	1.7	2.7	2.4	1.6	1.9	2.6	1.2	-1.3
5.5-6.0 (High)	_	4.4	2.8	2.8	2.6	2.4	2.8	3.5	4.6	3.6	3.2	2.2	2.8	2.1	1.7	1.9	0.9	0.8	-0.1
Race/Ethnicity (2-year average): c																			
White	_	_	3.6	4.1	4.1	4.1	4.6	4.7	5.0	5.3	4.4	3.5	3.5	3.6	3.0	2.7	2.3	1.7	-0.6 s
African American	_	_	2.3	2.0	1.1	1.5	1.8	1.5	1.7	2.4	2.9	1.8	1.5	2.1	2.4	1.7	1.6	1.6	0.0
Hispanic	_		2.5	2.9	2.3	1.8	1.9	1.8	2.9	4.0	4.4	3.6	1.9	1.9	2.0	1.7	2.2	4.0	+1.8 ss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of four forms; N is one third of N indicated in Table S2.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 61

OXYCONTIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

								Pe	ercentage	who use	ed in last	12 mont	ths							2017-
	•	1975-																		2018
		2001	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
	Approximate weighted N =	_	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total		_	4.0	4.5	5.0	5.5	4.3	5.2	4.7	4.9	5.1	4.9	4.3	3.6	3.3	3.7	3.4	2.7	2.3	-0.4
Gender:																				
Male		_	5.6	6.2	6.1	7.4	5.3	6.3	5.3	6.5	5.9	5.9	5.1	4.7	4.3	4.2	3.6	3.4	2.4	-1.0
Female		_	2.6	2.8	3.4	3.5	2.9	4.0	4.0	3.4	3.8	3.8	3.1	2.5	2.2	3.0	2.6	1.8	1.7	-0.1
College Plans:																				
None or under	r 4 years	_	7.0	8.8	8.2	9.9	7.4	7.8	7.6	6.7	10.2	9.7	5.2	6.0	4.5	4.3	5.3	4.5	3.8	-0.7
Complete 4 ye	ears	_	3.2	3.1	3.8	4.3	3.3	4.5	4.1	4.5	3.9	3.9	4.0	2.8	2.9	3.4	2.9	2.1	1.7	-0.4
Region:																				
Northeast		_	5.0	5.5	4.6	6.0	5.5	5.5	4.6	5.0	6.3	4.4	3.6	3.6	3.1	2.8	2.1	2.0	1.3	-0.7
Midwest		_	5.0	4.5	4.2	6.0	4.3	5.1	4.4	5.4	5.0	4.3	4.5	3.0	3.4	3.8	3.6	2.1	2.0	0.0
South		_	3.6	4.0	5.9	6.3	4.0	5.2	4.9	4.3	4.8	5.0	4.3	4.1	4.4	3.6	3.6	3.1	2.8	-0.3
West		_	2.6	4.4	4.7	3.0	3.6	5.1	4.9	5.0	4.7	5.9	4.5	3.3	1.6	4.2	3.7	3.1	2.5	-0.6
Population Den	nsity:																			
Large MSA		_	3.7	2.8	4.6	4.8	4.4	4.2	3.9	4.2	5.4	3.9	4.6	2.8	3.6	2.6	3.7	2.0	2.5	+0.6
Other MSA		_	3.8	5.3	5.2	5.1	3.6	5.4	5.0	5.2	4.8	5.2	4.0	4.2	3.4	4.3	3.6	3.4	2.0	-1.4 s
Non-MSA		_	4.7	5.2	4.9	7.1	5.4	6.2	5.1	5.2	5.3	6.0	4.6	3.1	2.7	3.9	2.7	2.5	2.6	+0.1
Parental Educa	ation: b																			
1.0-2.0 (Low)		_	6.3	6.9	3.7	5.5	4.2	4.4	3.8	4.9	4.9	3.4	4.3	6.0	3.6	3.2	4.2	3.7	2.6	-1.1
2.5-3.0		_	5.3	6.8	4.8	6.3	4.4	5.6	4.5	4.6	5.5	4.8	4.2	3.4	3.0	3.3	2.9	3.4	3.0	-0.4
3.5-4.0		_	3.9	3.4	6.5	6.3	5.1	5.0	6.0	5.8	5.4	5.7	4.6	3.4	3.4	3.4	2.4	2.8	2.2	-0.6
4.5-5.0		_	2.2	3.6	3.1	4.2	3.4	5.3	4.3	4.8	4.2	4.4	4.4	3.5	2.8	3.9	3.6	1.6	1.6	0.0
5.5-6.0 (High)	)	_	4.0	2.5	4.3	4.8	3.5	4.3	3.8	4.1	4.7	5.0	3.5	2.2	4.1	4.3	5.0	2.8	1.3	-1.5
Race/Ethnicity	(2-year average): c																			
White		_	_	4.7	5.1	5.8	5.4	5.5	6.0	5.8	5.7	5.8	5.2	4.0	3.3	3.7	3.7	3.0	2.5	-0.6
African Americ	can	_	_	2.5	2.4	2.0	2.2	2.4	2.1	2.0	3.1	3.2	2.8	3.4	4.0	3.9	3.3	2.5	1.7	-0.7
Hispanic		_	_	2.5	2.2	3.0	3.7	3.2	2.1	2.9	3.5	3.0	3.2	3.4	2.7	2.1	2.9	3.3	2.1	-1.2 s

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on two of six forms in 2002–2005; N is two sixths of N indicated in Table S3. Data based on three of six forms beginning in 2006; N is three sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 62
VICODIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

							P	ercentage	e who us	ed in las	t 12 mon	ths							
																			2017-
	1991– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2042	2042	204.4	2045	2040	2047	2040	2018
Approximate weighted N =	<u>2001</u>	2002 15,100	2003 16.500	<u>2004</u> 17.000	2005 16.800	2006 16,500	2007 16.100	<u>2008</u> 15.700	<u>2009</u> 15,000	15,300	16.000	2012 15,100	2013 14,600	2014 14.600	2015 14.400	2016 16,900	2017 15,300	2018 14,000	<u>change</u>
Total	_	2.5	2.8	2.5	2.6	3.0	2.7	2.9	2.5	2.7	2.1	1.3	1.4	1.0	0.9	0.8	0.7	0.6	-0.1
Gender:	_	2.5	2.0	2.5	2.0	3.0	2.1	2.9	2.5	2.1	2.1	1.3	1.4	1.0	0.9	0.0	0.7	0.0	-0.1
Male	_	2.7	2.8	2.4	2.9	2.6	2.1	2.9	3.0	2.8	2.1	0.8	1.1	0.9	0.8	1.2	0.9	0.8	-0.1
Female		2.4	2.8	2.4	2.2	3.4	3.2	2.7	2.2	2.6	1.9	1.7	1.6	1.1	1.0	0.5	0.4	0.3	-0.1
College Plans:	_	2.4	2.0	2.0	2.2	3.4	3.2	2.1	2.2	2.0	1.9	1.7	1.0	1.1	1.0	0.5	0.4	0.3	-0.1
None or under 4 years	_	5.9	6.3	7.1	7.3	9.5	8.1	7.0	6.5	7.2	6.4	3.0	4.0	1.9	2.2	2.9	2.7	1.9	-0.8
Complete 4 years		2.1	2.4	2.0	1.9	2.4	2.1	2.5	2.3	2.2	1.8	1.2	1.2	0.9	0.7	0.6	0.4	0.4	0.0
Region:		2.1	2.4	2.0	1.5	2.4	2.1	2.0	2.0	2.2	1.0	1.2	1.2	0.3	0.7	0.0	0.4	0.4	0.0
Northeast	_	1.5	1.1	1.0	1.5	1.9	1.4	1.0	1.8	2.8	1.7	0.7	1.6	0.3	0.3	0.6	0.1	0.5	+0.4
Midwest	_	3.3	3.9	3.2	3.3	3.9	3.6	3.1	3.5	3.4	2.8	1.8	1.0	1.4	1.0	0.8	1.0	0.0	-1.0
South		2.5	2.1	2.1	2.3	2.2	2.1	2.9	1.7	1.8	1.5	1.5	1.1	0.6	1.0	0.9	0.5	0.8	+0.3
West		2.6	4.2	3.6	3.1	4.4	3.5	3.7	3.3	3.2	3.0	1.1	2.0	1.8	1.0	1.0	0.9	0.8	-0.1
Population Density:		2.0	4.2	3.0	5.1	4.4	0.0	5.1	0.0	3.2	3.0	1.1	2.0	1.0	1.0	1.0	0.5	0.0	-0.1
Large MSA		2.6	2.4	1.8	2.5	2.4	1.6	2.7	1.9	1.8	1.2	1.8	1.3	0.8	0.7	0.9	0.4	0.6	+0.2
Other MSA		3.0	3.1	3.0	2.6	3.3	3.4	3.0	2.6	3.2	2.7	1.0	1.4	1.2	1.2	0.8	1.0	0.6	-0.4
Non-MSA		1.6	2.5	2.4	2.6	3.3	2.8	2.8	3.2	2.8	2.4	1.6	1.5	1.0	0.4	0.9	0.2	0.5	+0.3
Parental Education: <sup>b</sup>		1.0	2.0	2.4	2.0	0.0	2.0	2.0	5.2	2.0	2.4	1.0	1.5	1.0	0.4	0.3	0.2	0.5	+0.5
1.0–2.0 (Low)	_	3.3	3.3	4.9	3.9	4.8	3.1	3.4	5.4	3.9	4.0	1.7	1.7	1.5	2.8	1.7	1.4	0.6	-0.8
2.5–3.0	_	3.9	3.4	4.1	3.8	4.0	3.0	3.3	3.8	3.3	3.0	1.2	1.1	0.9	1.1	0.7	0.5	0.1	-0.3
3.5–4.0	_	3.4	2.9	3.2	2.9	2.7	3.1	2.8	2.5	1.6	2.8	1.3	2.3	1.5	0.6	1.1	0.6	0.6	0.0
4.5–5.0	_	1.4	2.1	1.1	1.9	2.6	2.4	3.2	1.5	2.7	1.4	1.3	1.4	0.8	0.3	0.7	0.4	0.5	0.0
5.5–6.0 (High)	_	1.3	2.1	0.9	1.6	2.2	1.8	2.3	2.1	2.7	0.9	1.0	0.8	0.8	0.3	0.3	0.4	0.5	+0.1
Race/Ethnicity (2-year average): °		1.0		0.0	1.0		1.0	2.0		2.,	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	10.1
White	_	_	3.0	2.7	2.4	2.9	3.2	3.2	2.8	2.6	2.5	1.8	1.2	0.9	0.7	0.7	0.6	0.4	-0.2
African American	_	_	1.4	1.4	1.6	1.7	1.6	1.6	1.9	2.0	1.3	1.2	1.3	0.9	0.5	1.0	1.1	1.5	+0.3
Hispanic	_	_	2.1	3.3	3.6	2.8	2.6	2.1	2.5	3.0	2.8	2.1	1.9	1.8	1.2	0.8	0.6	0.5	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>°</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 63
VICODIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

							Pe	ercentage	e who us	ed in las	t 12 mon	ths							
	1991–																		2017– 2018
	2001	2002	2003	2004	<u>2005</u>	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	6.9	7.2	6.2	5.9	7.0	7.2	6.7	8.1	7.7	5.9	4.4	4.6	3.4	2.5	1.7	1.5	1.1	-0.3
Gender:																			
Male	_	7.4	8.4	6.2	5.5	7.0	7.5	7.1	9.2	8.1	6.0	4.5	5.1	2.9	2.7	1.8	1.4	1.4	0.0
Female	_	6.1	6.1	6.0	6.2	6.9	6.8	6.4	7.0	7.0	5.8	4.4	4.1	3.9	2.2	1.8	1.5	0.7	-0.7
College Plans:																			
None or under 4 years	_	13.4	15.8	11.6	13.2	17.2	15.2	16.5	17.6	16.9	14.1	8.8	9.3	7.1	7.8	4.9	3.7	3.0	-0.7
Complete 4 years	_	5.7	5.8	5.4	4.8	5.6	6.1	5.6	7.1	6.5	4.9	4.0	4.1	3.0	2.0	1.4	1.2	8.0	-0.4
Region:																			
Northeast	_	6.2	5.6	6.4	5.7	4.9	6.5	5.3	5.1	5.6	4.6	3.3	3.5	2.4	1.9	1.8	1.0	8.0	-0.2
Midwest	_	7.2	9.4	6.4	7.1	8.7	8.8	8.4	10.5	9.3	8.1	4.6	5.8	4.4	2.9	2.6	1.3	1.6	+0.4
South	_	5.3	5.0	5.0	5.0	4.2	4.5	5.2	5.6	6.0	4.3	3.4	3.1	2.7	1.8	0.7	1.5	0.7	-0.8
West	_	10.0	9.1	7.1	5.8	11.1	9.4	7.9	12.1	10.1	6.6	6.6	6.0	4.4	3.9	2.4	1.9	1.6	-0.2
Population Density:																			
Large MSA	_	5.7	7.1	4.8	6.5	6.1	6.8	6.2	7.7	7.1	5.7	4.3	4.8	3.9	1.5	1.4	1.5	0.9	-0.6
Other MSA	_	7.9	6.4	6.9	5.3	7.6	7.2	6.7	8.9	7.5	5.8	4.5	4.7	3.0	2.8	1.5	1.3	1.1	-0.2
Non-MSA	_	6.2	9.2	6.4	6.3	6.9	7.8	7.6	7.1	8.9	6.3	4.5	4.0	3.9	3.5	3.0	1.8	1.5	-0.3
Parental Education: b																			
1.0-2.0 (Low)	_	6.1	6.4	6.4	4.9	7.6	6.5	6.3	10.4	12.1	5.8	6.6	8.2	3.0	4.8	1.1	2.4	3.0	+0.6
2.5–3.0	_	8.0	8.3	8.2	7.7	8.0	8.6	7.5	9.1	9.6	7.5	5.8	4.4	3.5	3.0	2.1	1.1	1.6	+0.4
3.5-4.0	_	7.5	8.5	6.2	6.8	8.1	8.2	7.9	9.0	8.9	7.3	4.9	5.3	5.1	3.5	2.3	1.1	8.0	-0.3
4.5–5.0	_	5.7	6.3	5.1	5.0	5.6	7.0	6.0	7.3	4.5	4.3	3.6	3.7	2.4	1.7	1.7	1.6	0.4	-1.2 s
5.5-6.0 (High)	_	6.6	5.6	5.0	4.6	6.3	4.7	5.7	6.0	5.8	4.1	3.1	3.7	2.7	1.2	1.2	1.3	0.9	-0.4
Race/Ethnicity (2-year average): c																			
White	_	_	8.0	7.6	7.1	7.4	8.3	8.5	8.3	8.3	7.2	5.3	4.7	4.8	3.6	2.6	1.8	1.2	-0.6 s
African American	_	_	3.1	3.0	1.6	2.2	2.4	2.2	2.7	3.4	3.0	1.7	1.9	2.4	2.2	1.2	1.2	0.9	-0.3
Hispanic	_	_	6.5	6.0	4.8	4.4	4.2	4.1	6.2	8.2	7.3	5.6	4.6	3.3	2.2	1.5	1.5	1.8	+0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

°To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 64
VICODIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

							Pe	ercentage	e who us	ed in last	12 mont	hs							2017-
	1975-																		2018
	<u>2001</u>	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	9.6	10.5	9.3	9.5	9.7	9.6	9.7	9.7	8.0	8.1	7.5	5.3	4.8	4.4	2.9	2.0	1.7	-0.2
Gender:																			
Male	_	12.0	13.0	10.7	11.9	10.9	10.9	10.6	11.5	9.5	9.0	8.6	6.5	5.5	5.1	3.2	2.2	1.6	-0.6
Female	_	7.5	8.1	7.6	7.2	8.7	8.1	8.9	7.9	6.4	7.1	5.9	4.1	3.8	3.8	2.3	1.5	1.3	-0.2
College Plans:																			
None or under 4 years	_	13.0	14.7	11.6	14.3	11.8	13.2	15.0	13.1	12.0	13.2	9.2	8.3	5.7	5.8	4.1	2.7	3.2	+0.5
Complete 4 years	_	8.4	9.1	8.3	8.4	9.1	8.5	8.5	8.9	7.1	7.1	6.8	4.5	4.4	4.0	2.6	1.7	1.2	-0.5
Region:																			
Northeast	_	8.1	9.4	9.1	8.8	10.8	9.3	9.9	9.0	9.0	5.8	5.4	5.4	3.2	3.4	1.3	1.5	1.1	-0.3
Midwest	_	11.6	13.2	8.4	12.4	12.0	14.1	11.7	14.3	9.6	9.6	9.7	6.7	7.4	5.6	4.4	2.5	2.2	-0.3
South	_	8.1	6.1	7.0	7.8	6.9	6.3	7.3	6.2	5.0	5.6	4.9	3.1	3.6	3.7	2.3	1.9	1.8	-0.2
West	_	10.9	16.3	15.4	9.3	11.2	10.9	11.1	10.4	10.6	11.9	9.7	7.1	5.7	5.2	3.9	1.8	1.6	-0.2
Population Density:																			
Large MSA	_	9.7	7.3	8.3	8.9	10.4	9.1	8.4	8.6	8.4	8.7	8.7	5.5	4.2	3.4	3.0	2.0	2.1	+0.2
Other MSA	_	10.6	12.2	10.9	9.3	9.4	9.3	10.0	9.7	8.5	8.2	6.8	5.5	5.3	5.4	3.3	2.0	1.3	-0.7
Non-MSA	_	7.8	11.4	7.2	10.6	9.5	10.7	10.5	11.3	6.2	7.2	7.3	4.6	4.3	3.6	1.9	1.7	2.0	+0.3
Parental Education: b																			
1.0-2.0 (Low)	_	12.1	9.4	7.8	7.8	7.9	6.3	7.8	9.6	6.0	8.6	6.8	6.0	4.9	4.5	2.6	2.0	2.0	+0.1
2.5–3.0	_	9.6	10.8	8.8	10.5	9.3	10.2	10.5	9.2	8.5	7.6	9.0	5.0	5.0	3.7	3.0	2.5	2.1	-0.4
3.5-4.0	_	9.5	12.0	10.1	10.0	11.6	9.9	11.2	10.9	8.3	9.0	7.8	6.5	4.1	4.9	2.6	2.0	1.8	-0.2
4.5–5.0	_	9.9	9.7	8.4	9.0	8.6	10.5	8.8	10.3	7.9	7.3	7.1	5.3	5.1	4.8	2.4	1.2	8.0	-0.4
5.5–6.0 (High)	_	8.6	8.8	10.1	8.9	10.4	7.9	8.8	7.7	8.4	7.7	5.5	3.4	4.8	4.2	4.2	2.0	1.6	-0.4
Race/Ethnicity (2-year average): c																			
White	_	_	11.7	11.2	10.5	11.3	11.5	11.6	11.8	10.4	9.4	8.7	6.6	5.0	4.7	3.8	2.5	1.9	-0.6 ss
African American	_	_	3.3	3.1	3.3	3.7	3.3	3.6	4.3	4.3	4.1	3.8	3.2	2.7	2.9	2.9	1.8	1.1	-0.7
Hispanic	_	_	7.1	7.2	7.7	6.5	5.7	4.9	5.7	6.2	6.0	7.1	7.1	4.7	3.5	3.4	2.3	1.7	-0.6

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on two of six forms in 2002–2005; N is two sixths of N indicated in Table S3. Data based on three of six forms beginning in 2006; N is three sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 65 **AMPHETAMINES:** <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Percer	tage who	o used ir	last 12	months					
	4004	4000	1000	1001	1005	4000	4007	1000	1000	0000	0004	0000	0000	0004	0005
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	<u>2005</u>
Approximate weighted N =		18,600	18,300		17,500		18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	6.2	6.5	7.2	7.9	8.7	9.1	8.1	7.2	6.9	6.5	6.7	5.5	5.5	4.9	4.9
Gender:															
Male	5.5	5.2	5.6	6.5	7.0	6.7	6.6	5.6	5.6	5.1	5.7	4.8	4.4	3.7	3.5
Female	6.9	7.9	8.8	9.3	10.3	11.3	9.6	8.7	8.2	7.7	7.5	6.2	6.5	6.1	6.2
College Plans:															
None or under 4 years	11.6	12.9	14.6	14.5	17.1	15.5	14.1	15.4	14.0	14.2	12.0	12.2	12.4	8.9	11.2
Complete 4 years	5.4	5.7	6.3	7.0	7.6	8.3	7.5	6.3	6.2	5.7	6.1	4.8	4.8	4.5	4.3
Region:															
Northeast	5.1	4.3	5.9	6.9	7.3	7.6	6.5	5.5	5.6	5.0	5.5	3.4	4.1	2.8	3.5
Midwest	7.1	8.0	7.3	7.8	10.6	10.8	9.3	7.2	8.3	7.8	7.1	5.9	5.9	5.1	5.0
South	6.1	6.6	7.3	8.3	8.6	8.7	8.1	8.4	7.5	7.0	8.1	6.7	6.4	5.7	5.8
West	6.0	6.6	8.6	8.4	7.9	9.1	8.3	6.7	5.4	5.4	4.6	4.7	4.6	4.9	4.6
Population Density:															
Large MSA	5.8	4.8	5.6	6.6	7.2	7.9	6.4	5.4	5.2	5.2	5.0	4.2	3.9	4.0	3.6
Other MSA	6.2	7.5	8.2	8.8	8.9	10.0	8.1	7.4	6.8	6.4	7.6	5.9	5.5	5.4	5.8
Non-MSA	6.7	7.0	7.5	7.5	10.1	8.9	9.9	8.8	9.3	8.5	6.9	6.3	7.5	5.0	5.2
Parental Education: b															
1.0-2.0 (Low)	8.3	8.4	10.2	11.2	11.8	10.1	9.6	11.2	8.9	9.7	7.4	6.3	8.4	9.7	8.3
2.5–3.0	6.6	7.3	8.2	9.0	10.6	9.9	9.2	8.1	7.8	8.1	8.2	7.3	7.4	5.2	6.6
3.5-4.0	6.7	7.4	7.8	8.5	10.1	10.3	8.9	7.7	8.2	6.8	7.8	5.7	5.9	5.6	5.6
4.5–5.0	5.3	5.5	6.4	6.6	6.8	8.6	7.5	6.2	5.6	5.2	5.9	4.9	4.3	4.2	3.7
5.5-6.0 (High)	5.7	5.4	5.3	5.7	6.4	8.7	7.3	6.4	5.8	5.2	4.5	4.3	3.9	3.5	3.1
Race/Ethnicity (2-year average): c															
White	_	6.8	7.4	8.1	9.3	10.2	9.9	9.0	8.4	8.0	7.8	7.2	6.4	5.9	5.4
African American	_	3.3	3.4	3.9	3.9	3.4	3.0	2.8	2.7	2.4	2.3	2.7	2.5	2.1	2.2

Hispanic

Table continued on next page.

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 7.2
 7.7
 8.6
 8.7
 8.6
 8.1
 7.2
 7.0
 6.8
 6.6
 5.9
 5.0
 5.4
 5.3

TABLE 65 (cont.)

AMPHETAMINES: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

					Percer	tage wh	o used ir	n last 12	months						
	2006	2007	2008	2009	2010	<u>2011</u>	2012	2013	2014	2015	<u>2016</u>	2017	2018	2017-2018 <u>change</u>	
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000		
Total	4.7	4.2	4.5	4.1	3.9	3.5	2.9‡	4.2	4.3	4.1	3.5	3.5	3.7	+0.2	
Gender:															
Male	3.5	3.3	3.5	3.7	3.4	3.1	2.4‡	3.5	3.4	3.1	2.9	2.4	3.6	+1.1 ss	
Female	5.7	4.9	5.5	4.4	4.3	3.8	3.3‡	4.8	4.8	5.1	4.1	4.4	3.9	-0.5	
College Plans:															
None or under 4 years	10.7	10.0	12.4	10.8	8.8	8.1	6.8‡	8.7	10.4	6.5	7.4	6.0	7.0	+1.0	
Complete 4 years	4.1	3.6	3.8	3.5	3.5	3.1	2.6‡	3.9	3.7	3.9	3.1	3.2	3.3	+0.1	
Region:															
Northeast	2.2	2.6	2.6	2.9	2.0	2.3	2.1‡	2.6	3.3	3.4	1.6	2.3	2.1	-0.2	
Midwest	5.3	4.8	5.1	4.1	4.0	3.5	2.2‡	4.0	3.8	3.8	3.5	3.0	3.2	+0.2	Table continued on next page.
South	5.6	4.6	5.5	5.1	4.8	3.8	4.0‡	5.3	4.4	4.6	4.2	3.9	4.3	+0.5	
West	4.3	3.7	3.8	3.0	3.6	3.9	2.2‡	3.8	5.2	4.0	3.7	4.4	4.5	+0.2	
Population Density:															
Large MSA	3.9	3.4	4.1	2.7	2.6	2.6	2.6‡	3.8	3.3	3.1	2.8	3.5	4.0	+0.6	
Other MSA	4.8	4.6	4.8	4.8	4.6	4.1	3.1‡	4.3	4.7	5.0	3.6	3.6	3.7	+0.1	
Non-MSA	5.4	4.4	4.4	4.3	3.9	3.6	3.0‡	4.8	4.8	3.5	4.3	3.6	3.3	-0.3	
Parental Education: b															
1.0–2.0 (Low)	6.5	7.3	7.9	6.5	5.9	5.1	3.8‡	6.0	5.3	6.0	5.0	5.8	4.8	-1.0	
2.5–3.0	6.0	4.9	6.0	4.5	4.6	5.4	3.7‡	5.0	5.3	5.3	4.0	4.1	4.2	+0.2	
3.5-4.0	5.0	4.5	5.4	5.3	4.1	3.8	3.4‡	6.1	4.8	4.4	3.5	3.7	4.5	+0.8	
4.5–5.0	4.2	2.9	3.2	3.3	3.5	2.5	1.9‡	3.5	3.2	3.3	3.2	2.7	3.2	+0.5	
5.5-6.0 (High)	3.6	3.5	3.4	2.8	2.5	2.4	2.6‡	2.3	3.6	3.3	3.3	2.7	3.0	+0.2	
Race/Ethnicity (2-year average): c															
White	5.3	4.9	4.9	4.9	4.5	3.9	3.2	2.7‡	3.9	4.1	3.6	3.2	3.3	+0.1	
African American	2.0	1.7	1.8	2.4	2.3	1.9	1.9	1.6‡	3.2	3.2	3.3	3.3	3.3	0.0	
Hispanic	4.5	3.9	4.0	3.9	3.5	3.9	3.6	2.6‡	4.5	4.1	3.8	3.7	4.0	+0.3	_

## TABLE 65 (cont.)

## **AMPHETAMINES:** <sup>a</sup> Trends in **Annual** Prevalence of Use by Subgroups in Grade 8

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. In 2009, the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording changes. In 2010 the remaining forms were changed in a like manner. In 2013 the question wording was changed two of the 8th and 10th grade questionnaires. The new wording in 2013 asked "On how many occasions (if any) have you taken amphetamines or other prescription stimulant drugs..." In contrast, the old wording did not include "or other prescription stimulant drugs." Results in 2013 indicated higher prevalence in questionnaires with the new as compared to the old wording; it was proportionally 61% higher in 8th grade and 34% higher in 10th grade. 2013 data are based on the changed forms only; N is one half of N indicated. Beginning in 2014 all questionnaires included the new, updated wording.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted. The 2014 race/ethnicity data are based on the 2013 changed data which were double weighted and the 2014 data.

TABLE 66

AMPHETAMINES: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

						Percen	tage wh	o used in	last 12	months						
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	8.2	8.2	9.6	10.2	11.9	12.4	12.1	10.7	10.4	11.1	11.7	10.7	9.0	8.5	7.8	
Gender:																
Male	7.0	7.0	8.2	8.6	9.6	10.5	10.3	9.0	9.2	10.3	10.6	9.6	7.8	7.3	6.6	
Female	9.3	9.3	10.9	11.7	14.1	14.2	13.9	12.3	11.5	11.8	12.7	11.8	10.1	9.6	9.0	
College Plans:																
None or under 4 years	13.4	14.4	15.5	16.6	19.9	20.3	19.3	17.9	16.3	18.2	20.4	17.5	15.7	14.8	13.7	
Complete 4 years	7.1	6.9	8.4	8.9	10.6	11.1	10.9	9.5	9.5	10.0	10.3	9.7	7.9	7.6	7.0	
Region:																
Northeast	6.1	5.4	7.8	8.7	9.8	11.5	10.7	11.0	12.1	9.8	10.5	9.3	7.4	8.5	7.4	
Midwest	10.3	9.4	9.5	10.5	13.3	14.0	11.0	9.8	10.3	11.1	10.7	10.4	9.7	8.2	8.5	Table continued on next page
South	8.1	8.7	10.9	11.2	12.8	12.6	14.2	12.6	10.8	12.0	14.0	12.2	10.2	9.6	8.6	
West	7.7	8.4	9.5	9.4	10.6	10.6	11.1	8.5	8.2	10.9	9.9	9.6	8.1	7.3	5.8	
Population Density:																
Large MSA	7.5	6.7	7.6	8.0	9.2	10.5	9.9	8.9	9.3	10.7	9.8	9.8	6.2	6.2	6.5	
Other MSA	7.9	8.0	9.5	10.8	12.8	12.8	11.5	10.3	10.6	9.9	11.1	11.0	9.5	9.6	8.0	
Non-MSA	9.3	10.0	11.6	11.2	13.3	13.7	15.5	13.8	11.5	13.6	15.1	11.2	12.2	9.2	9.0	
Parental Education: b																
1.0-2.0 (Low)	10.0	11.9	12.3	10.8	14.3	15.1	12.2	12.6	10.7	13.3	12.3	13.1	10.9	9.2	8.9	
2.5–3.0	9.7	8.9	10.5	11.6	14.2	13.0	14.1	12.8	11.3	12.9	13.6	12.8	11.2	9.9	8.9	
3.5-4.0	7.9	8.4	10.5	11.1	12.4	14.1	13.5	11.1	11.2	12.2	12.6	11.1	9.9	10.1	8.1	
4.5–5.0	7.4	6.6	7.5	8.9	10.7	10.7	10.6	9.0	9.8	9.7	10.5	9.5	7.6	7.2	7.4	
5.5-6.0 (High)	6.9	6.9	8.3	7.3	8.8	10.1	9.2	9.4	9.8	8.8	9.2	8.1	6.4	6.3	6.6	
Race/Ethnicity (2-year average): c																
White	_	9.4	10.1	11.0	12.4	13.9	14.2	13.6	12.6	12.7	13.4	13.4	12.2	10.6	9.5	
African American	_	2.8	3.0	4.0	4.0	3.4	3.1	2.9	2.8	2.5	2.9	3.5	2.8	2.7	3.0	
Hispanic	_	6.2	7.0	7.7	8.9	10.3	9.8	8.9	8.8	9.1	8.3	7.9	7.7	7.3	7.3	

TABLE 66 (cont.)

AMPHETAMINES: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

					Percer	ntage wh	o used ir	n last 12	months						
														2017-2018	
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>	
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300		
Total	7.9	8.0	6.4	7.1	7.6	6.6	6.5‡	7.9	7.6	6.8	6.1	5.6	5.7	0.0	
Gender:															
Male	6.7	7.4	5.8	6.8	7.4	7.2	6.9‡	8.3	6.9	6.4	6.1	5.3	5.4	+0.1	
Female	8.9	8.7	6.9	7.4	7.7	6.0	6.2‡	7.5	8.3	7.3	6.2	5.7	5.9	+0.2	
College Plans:															
None or under 4 years	14.8	15.4	12.5	15.3	15.7	14.6	13.8‡	11.5	14.7	12.8	12.1	9.3	10.2	+0.9	
Complete 4 years	7.0	7.1	5.6	6.3	6.7	5.7	5.8‡	7.6	6.9	6.3	5.5	5.2	5.0	-0.1	
Region:															
Northeast	6.7	7.3	4.2	5.2	5.9	5.7	6.2‡	6.2	6.6	6.4	4.0	4.6	4.6	0.0	
Midwest	8.7	8.7	7.3	7.0	8.6	7.4	6.4‡	8.5	8.7	6.0	6.9	6.9	6.6	-0.3	Table continued on next page.
South	8.5	8.1	6.8	8.3	7.6	7.2	7.5‡	9.0	7.9	7.5	6.8	5.4	5.6	+0.1	
West	7.1	7.7	6.6	7.4	8.1	5.6	5.2‡	7.3	7.0	7.1	6.2	5.5	5.8	+0.3	
Population Density:															
Large MSA	6.8	7.5	5.4	6.3	6.9	6.0	5.9‡	7.5	7.3	6.6	6.0	6.0	5.8	-0.2	
Other MSA	8.3	8.0	6.6	7.7	8.0	6.4	6.5‡	8.4	7.3	6.7	6.2	5.6	5.7	+0.1	
Non-MSA	8.7	9.0	7.2	7.3	8.1	8.0	7.3‡	7.3	8.9	7.6	6.3	5.1	5.4	+0.3	
Parental Education: b															
1.0–2.0 (Low)	9.3	7.9	7.8	9.8	9.6	6.6	9.8‡	10.9	9.5	9.5	6.7	6.0	6.5	+0.5	
2.5–3.0	9.0	10.2	7.6	8.0	8.5	7.9	6.8‡	9.9	8.7	8.0	6.7	6.0	6.7	+0.7	
3.5–4.0	9.1	8.9	7.7	7.8	8.3	7.3	6.7‡	8.2	8.7	8.5	7.3	5.6	5.4	-0.1	
4.5–5.0	6.6	6.9	5.4	6.0	6.9	5.8	6.1‡	7.3	6.5	6.1	5.6	5.5	5.0	-0.5	
5.5–6.0 (High)	6.8	6.0	4.3	6.5	6.3	5.3	5.7‡	5.6	6.2	5.0	5.3	5.8	5.9	+0.1	
Race/Ethnicity (2-year average): c															
White	9.2	9.4	8.7	7.8	8.5	8.3	7.4	7.1‡	8.5	7.7	7.0	6.5	6.2	-0.3	
African American	2.8	2.3	2.3	2.3	2.8	3.0	2.9	2.6‡	5.3	4.8	4.6	3.9	3.3	-0.6	
Hispanic	6.3	5.8	6.0	6.1	6.3	6.1	6.1	4.7‡	7.4	6.7	6.6	5.6	5.4	-0.2	

## TABLE 66 (cont.) AMPHETAMINES: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 10

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡ 'indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:

s = .05, ss = .01, sss = .001.' — 'indicates data' not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See

Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2009, the question text was changed slightly in half of the questionnaire forms. An examination of the data
did not show any effect from the wording changes. In 2010 the remaining forms were changed in a like manner. In 2013 the question wording was changed two of the 8th and 10th grade questionnaires. The new
wording in 2013 asked "On how many occasions (if any) have you taken amphetamines or other prescription stimulant drugs..." In contrast, the old wording did not include "or other prescription stimulant drugs."

Results in 2013 indicated higher prevalence in questionnaires with the new as compared to the old wording; it was proportionally 61% higher in 8th grade and 34% higher in 10th grade. 2013 data are based on
the changed forms only; N is one half of N indicated. Beginning in 2014 all questionnaires included the new, updated wording.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted. The 2014 race/ethnicity data are based on the 2013 changed data which were double weighted and the 2014 data.

TABLE 67

AMPHETAMINES: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

-						Pe	rcentage	e who us	ed in last	t 12 mon	ths					
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	1983	1984	<u>1985</u>	1986	<u>1987</u>	1988	1989	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	16.2	15.8	16.3	17.1	18.3	20.8	26.0	20.3	17.9	17.7	15.8	13.4	12.2	10.9	10.8	9.1
Gender:																
Male	15.6	15.8	16.0	16.9	18.4	19.7	24.8	19.6	17.2	16.8	14.9	12.7	11.8	10.8	11.1	9.4
Female	16.5	15.4	16.4	17.1	17.8	21.8	26.9	20.3	17.9	18.2	16.4	13.8	12.4	10.9	10.5	8.6
College Plans:																
None or under 4 years	_	19.3	20.5	20.0	21.8	25.8	30.9	23.7	20.9	22.2	19.7	17.7	16.0	13.9	15.1	12.6
Complete 4 years	_	11.9	11.5	13.7	14.5	16.5	22.3	16.8	14.5	14.2	13.3	10.9	10.2	9.5	9.1	7.4
Region:																
Northeast	16.5	14.7	16.8	19.6	22.0	22.0	28.8	21.5	17.9	19.0	16.8	12.6	10.4	8.4	9.0	6.3
Midwest	18.7	17.8	19.0	18.2	18.3	22.2	30.1	24.1	20.4	20.3	17.3	15.2	13.5	12.2	13.3	10.7
South	12.6	13.7	13.2	14.0	14.0	17.7	19.6	16.4	15.4	15.1	12.8	11.5	11.5	10.8	9.9	8.9
West	18.5	17.2	16.0	17.8	20.7	22.1	26.6	18.7	18.2	16.9	17.3	15.0	13.4	11.8	11.1	10.2
Population Density:																
Large MSA	19.6	15.4	15.3	17.7	19.5	21.9	28.0	21.6	18.1	17.7	15.0	11.2	10.9	8.8	7.1	6.5
Other MSA	15.5	16.3	17.1	17.5	18.9	20.8	25.5	20.7	19.6	17.1	15.7	14.2	11.9	11.9	11.4	9.6
Non-MSA	14.8	15.4	15.9	16.0	16.6	19.9	25.1	18.8	15.6	18.5	16.6	14.1	14.0	11.3	13.3	10.6
Parental Education: c																
1.0-2.0 (Low)	15.7	13.4	14.5	14.9	16.0	19.1	22.3	18.7	15.7	17.1	14.5	11.9	11.9	9.8	10.4	7.6
2.5–3.0	16.7	16.9	17.4	17.3	18.4	22.2	26.7	21.9	19.6	19.2	17.0	15.2	13.3	11.1	11.7	9.7
3.5-4.0	14.9	16.6	16.1	18.2	19.6	21.5	26.9	21.7	19.4	18.5	17.2	14.3	12.6	11.8	12.3	10.6
4.5–5.0	14.5	16.8	15.9	16.9	17.1	20.0	26.2	19.1	18.9	15.9	15.1	12.0	11.7	10.3	9.4	8.1
5.5-6.0 (High)	12.0	14.6	16.0	17.2	20.4	17.9	26.8	20.5	16.1	14.0	10.9	10.1	10.4	10.0	9.1	7.3
Race/Ethnicity (2-year average): d																
White	_	_	17.3	18.2	19.2	21.3	26.4	23.6	22.3	20.5	18.9	16.4	14.3	13.0	12.4	11.4
African American	_	_	5.3	4.7	4.2	5.3	5.8	6.0	5.7	4.7	4.3	4.0	3.8	3.9	3.6	3.1
Hispanic	_	_	12.3	12.2	12.8	14.5	17.5	12.3	11.5	13.2	14.6	10.8	8.7	9.6	9.0	7.0

TABLE 67 (cont.)

AMPHETAMINES: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Percer	ntage wh	o used ir	n last 12	months					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	<u>1996</u> 14,300	<u>1997</u> 15,400	1998 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	8.2	7.1	8.4	9.4	9.3	9.5	10.2	10.1	10.2	10.5	10.9	11.1	9.9	10.0	8.6
Gender:															
Male	8.3	7.2	8.2	9.2	9.5	9.6	10.1	10.3	10.6	10.4	10.9	11.3	9.8	9.9	9.1
Female	7.9	6.9	8.5	9.4	8.9	8.8	10.2	9.8	9.6	10.5	10.6	10.7	9.5	9.9	7.9
College Plans:															
None or under 4 years	11.0	9.7	11.0	13.4	12.3	12.8	14.1	13.6	12.7	13.9	14.4	14.8	14.4	13.3	11.5
Complete 4 years	7.0	6.1	7.6	8.0	8.3	8.4	8.9	9.0	9.5	9.6	9.8	10.1	8.4	8.9	7.8
Region:															
Northeast	6.5	6.2	8.1	7.4	9.6	10.4	11.1	9.0	9.9	10.6	12.0	11.5	9.7	9.5	7.4
Midwest	10.1	8.4	8.9	12.0	9.5	10.0	10.8	11.0	10.5	10.4	12.7	11.3	10.3	10.2	10.3
South	7.9	6.7	8.3	9.0	9.2	9.1	9.8	10.4	10.8	10.2	9.5	11.7	9.7	10.3	9.4
West	7.8	6.9	8.3	8.4	8.9	8.3	9.1	9.6	8.8	10.9	9.7	9.6	9.7	9.5	6.1
Population Density:															
Large MSA	6.2	6.0	6.5	7.8	9.1	7.9	8.9	9.0	7.0	8.3	10.6	10.7	7.5	8.0	7.8
Other MSA	8.4	6.7	8.5	9.4	8.5	8.9	9.5	9.9	10.8	10.9	10.8	11.0	10.5	10.6	8.9
Non-MSA	9.5	9.0	9.8	10.9	10.8	11.9	13.0	12.2	12.4	12.4	11.4	12.1	11.7	11.1	8.9
Parental Education: c															
1.0-2.0 (Low)	9.5	7.0	9.0	10.4	9.9	8.1	9.8	9.7	9.9	11.0	8.9	8.1	10.6	7.5	6.1
2.5–3.0	9.1	7.7	8.6	10.3	9.9	10.5	10.3	10.6	11.3	11.0	12.2	11.4	9.9	11.0	9.2
3.5–4.0	8.9	7.7	9.1	9.4	9.1	9.3	10.8	11.4	10.8	10.6	11.6	12.3	10.7	12.3	9.5
4.5-5.0	6.5	6.3	8.0	9.5	9.2	8.9	9.4	9.4	9.7	10.3	10.7	11.1	9.4	8.2	8.5
5.5-6.0 (High)	5.7	5.8	7.6	7.1	8.1	9.1	10.2	8.7	8.4	10.2	8.7	10.2	7.7	8.4	7.4
Race/Ethnicity (2-year average): d															
White	9.8	8.8	9.0	10.4	10.7	10.5	11.4	12.1	11.9	11.9	12.6	13.2	12.4	11.6	11.0
African American	2.7	2.2	2.3	3.4	3.4	2.9	2.8	2.8	2.5	2.6	3.0	2.9	2.8	2.4	2.4
Hispanic	6.1	6.0	6.2	6.4	7.1	7.8	7.3	7.0	7.6	9.2	9.2	7.9	6.8	7.0	6.7

TABLE 67 (cont.)

AMPHETAMINES: a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Percer	ntage wh	o used ir	last 12	months					
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	8.1	7.5	6.8	6.6	7.4	8.2	7.9‡	9.2	8.1	7.7	6.7	5.9	5.5	-0.4
Gender:														
Male	7.4	7.4	6.5	7.5	8.3	8.8	8.2‡	10.0	8.8	8.1	7.5	6.9	6.3	-0.6
Female	8.5	7.3	6.8	5.7	6.4	7.4	7.5‡	7.9	7.3	7.1	5.8	5.0	4.2	-0.7
College Plans:														
None or under 4 years	10.6	10.3	10.7	8.4	10.5	11.6	8.9‡	13.1	9.5	9.3	6.7	6.8	6.7	0.0
Complete 4 years	7.5	6.7	5.7	6.1	6.7	7.4	7.6‡	8.4	7.6	7.3	6.6	5.7	4.9	-0.8
Region:														
Northeast	8.5	7.5	6.5	6.7	8.6	7.1	7.0‡	8.1	7.1	6.6	5.8	5.0	5.4	+0.4
Midwest	7.6	8.2	6.9	7.8	8.1	8.6	9.0‡	10.7	8.9	9.0	7.7	5.9	6.0	+0.1
South	8.8	7.9	7.1	6.5	6.9	8.1	7.0‡	9.3	8.9	7.5	6.6	6.3	5.5	-0.8
West	7.0	5.8	6.3	5.2	6.5	8.7	8.5‡	8.5	7.0	7.7	6.5	5.8	5.0	-0.8
Population Density:														
Large MSA	8.7	6.7	6.2	6.3	6.8	7.4	9.2‡	8.5	7.5	7.7	6.2	5.1	4.5	-0.6
Other MSA	7.6	7.4	6.7	7.0	8.0	8.7	7.8‡	10.2	9.0	7.8	7.0	6.6	5.8	-0.8
Non-MSA	8.2	8.6	7.5	6.2	6.8	8.1	6.1‡	7.9	7.0	7.5	6.7	5.8	6.6	+0.8
Parental Education: c														
1.0-2.0 (Low)	8.2	7.5	7.3	5.5	5.0	6.8	6.0‡	7.9	6.8	6.4	5.8	4.2	4.1	-0.1
2.5–3.0	8.2	7.6	7.3	7.3	7.2	8.1	7.8‡	10.1	8.9	7.3	6.0	6.0	5.1	-0.9
3.5-4.0	8.9	7.6	6.5	7.3	7.9	8.3	8.0‡	9.0	7.8	7.7	7.4	5.9	6.0	+0.1
4.5-5.0	7.8	7.4	6.2	6.3	8.1	7.6	8.7‡	10.0	8.5	8.5	6.9	6.1	5.5	-0.6
5.5-6.0 (High)	7.0	7.1	7.1	5.6	7.5	9.7	8.4‡	9.3	8.6	9.5	7.8	7.4	6.2	-1.2
Race/Ethnicity (2-year average): d														
White	9.9	9.3	8.7	8.1	8.6	9.6	10.0	10.1‡	9.8	9.1	8.6	7.6	6.8	-0.8 s
African American	2.6	2.5	2.2	2.3	2.8	2.9	2.9	3.3‡	5.9	4.3	3.7	3.4	3.1	-0.3
Hispanic	6.4	5.8	4.7	4.4	4.4	4.8	4.7	6.3‡	6.9	6.5	5.8	4.7	3.9	-0.8

## TABLE 67 (cont.)

## **AMPHETAMINES:** a,b Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. In 2013 the question wording was changed slightly in four of the six questionnaire forms. Vyvanse was added to the list of examples in one questionnaire form. 2013 data presented here are based on the unchanged forms only; N is two sixths of N indicated.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>b</sup>Beginning in 1982, the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence rate dropped slightly as a result of this methodological change. (In 1982 and 1983, the data are based on three of the five questionnaire forms.) Only drug use not under a doctor's orders is included here. In 2009, the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording changes. In 2010 the remaining forms were changed in a like manner. In 2011 bennies, Benzedrine, and Methadrine were deleted from the list of examples in one questionnaire form. An examination of the data did not show any effect from the wording changes. In 2013 the question wording was changed in three of the 12th grade questionnaires. The new wording in 2013 asked "On how many occasions (if any) have you taken amphetamines or other prescription stimulant drugs..." In contrast, the old wording did not include "or other prescription stimulant drugs." Results in 2013 indicated higher prevalence in questionnaires with the new as compared to the old wording; it was proportionally 21% higher in 12th grade. 2013 data are based on the changed forms only; N is one half of N indicated. Beginning in 2014 all questionnaires included the new, updated wording.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were triple weighted. The 2014 race/ethnicity data are based on the 2013 changed data which were double weighted and the 2014 data.

TABLE 68
RITALIN: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in <u>Grade 8</u></u>

								Percei	ntage wh	o used ir	n last 12	months								2017-
	1991-																			2018
	2000	<u>2001</u>	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	2.9	2.8	2.6	2.5	2.4	2.6	2.1	1.6	1.8	1.5	1.3	0.7	1.1	0.9	0.6	8.0	0.4	0.5	+0.1
Gender:																				
Male	_	3.2	3.2	2.9	2.6	2.4	2.7	1.9	1.5	2.4	1.5	1.1	0.5	1.3	8.0	0.8	1.2	0.5	0.7	+0.1
Female	_	2.6	2.5	2.3	2.4	2.4	2.5	2.3	1.5	1.4	1.5	1.3	8.0	8.0	1.0	0.5	0.4	0.3	0.3	0.0
College Plans:																				
None or under 4 years	_	8.1	7.7	6.8	8.8	7.5	9.0	4.2	5.7	5.3	5.8	3.7	3.0	3.2	4.6	2.6	2.9	1.1	2.1	+1.0
Complete 4 years	_	2.4	2.2	2.1	1.8	1.8	1.9	1.8	1.2	1.6	1.1	1.1	0.5	0.9	0.6	0.4	0.6	0.3	0.4	+0.1
Region:																				
Northeast	_	1.5	2.8	1.7	1.6	2.0	2.0	0.9	0.4	1.2	1.8	1.5	0.1	1.3	1.3	0.2	0.5	0.1	0.5	+0.5
Midwest	_	3.0	3.0	2.9	2.4	1.9	3.2	2.4	2.0	2.3	1.8	1.2	0.1	0.7	0.2	0.5	0.4	0.2	0.4	+0.2
South	_	3.5	2.8	2.9	3.0	3.0	2.5	2.5	2.2	1.5	1.4	1.4	1.4	1.2	0.9	8.0	1.2	0.7	0.5	-0.1
West	_	2.9	2.5	2.2	2.5	2.1	2.7	1.6	1.2	2.2	1.2	1.0	0.5	1.3	1.4	0.7	0.7	0.5	0.7	+0.2
Population Density:																				
Large MSA	_	2.2	2.3	2.3	1.7	1.5	2.3	1.2	1.1	1.6	1.1	8.0	8.0	0.9	1.0	0.6	0.9	0.3	0.5	+0.3
Other MSA	_	2.9	3.1	2.8	3.0	3.4	3.0	2.7	1.8	1.9	1.9	1.8	0.8	1.2	1.0	0.7	1.0	0.6	0.7	+0.1
Non-MSA	_	3.5	2.8	2.4	2.4	1.7	2.3	2.0	1.9	2.0	1.3	0.9	0.2	1.0	0.8	0.3	0.3	0.3	0.2	-0.1
Parental Education: b																				
1.0-2.0 (Low)	_	4.8	5.3	2.5	4.2	5.2	6.5	1.9	4.4	4.6	2.3	2.7	0.7	2.3	2.0	8.0	1.8	0.9	0.6	-0.4
2.5–3.0	_	3.3	4.0	2.8	2.9	2.7	3.1	2.3	2.2	2.2	1.4	1.6	8.0	1.2	0.7	1.1	0.7	0.2	0.6	+0.4
3.5-4.0	_	3.5	3.3	3.3	2.7	2.7	2.6	2.4	1.7	2.1	0.5	1.5	1.1	1.2	1.0	0.4	1.0	0.4	0.5	+0.1
4.5–5.0	_	2.4	1.5	1.8	2.1	1.5	2.0	1.8	1.0	1.3	1.4	0.9	0.3	1.2	1.0	0.4	0.4	0.2	0.5	+0.2
5.5-6.0 (High)	_	2.1	1.7	2.1	1.9	1.6	1.2	1.8	0.7	1.4	1.6	0.8	0.6	0.4	0.4	0.3	0.6	0.6	0.3	-0.4
Race/Ethnicity (2-year average): c																				
White	_	_	3.0	2.8	2.7	2.5	2.6	2.4	1.9	1.7	1.7	1.4	1.0	0.7	0.8	0.6	0.4	0.4	0.3	-0.1
African American	_	_	1.0	1.3	1.5	1.6	1.8	1.8	1.8	1.3	1.0	1.1	1.0	1.4	1.2	0.7	1.5	1.6	0.9	-0.8
Hispanic	_	_	3.8	2.7	2.5	3.3	3.1	2.8	2.1	1.5	1.5	1.3	1.2	1.3	1.3	0.7	0.7	0.6	0.6	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of four forms; N is one third of N indicated in Table S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 69
RITALIN: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

									Perce	ntage wh	o used ir	last 12	months								2017–
		1991–																			2018
4	and the second second second Al	2000	<u>2001</u>	2002	<u>2003</u>	2004	2005	2006	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
•	oproximate weighted N =	_	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	.0.4
Total		_	4.8	4.8	4.1	3.4	3.4	3.6	2.8	2.9	3.6	2.7	2.6	1.9	1.8	1.8	1.6	1.2	8.0	0.9	+0.1
Gender:																					
Male		_	5.2	4.9	4.2	3.6	3.2	3.7	2.6	3.0	3.8	3.1	2.9	2.8	2.5	2.2	2.1	1.5	0.7	1.5	+0.8 s
Female		_	4.3	4.6	3.8	3.0	3.5	3.7	2.9	2.9	3.4	2.1	2.5	1.0	1.2	1.5	1.2	0.9	0.7	0.4	-0.4
College Plans:																					
None or under	•	_	7.2	10.2	11.0	5.5	6.7	9.1	6.0	8.6	9.3	6.2	7.3	4.5	3.7	6.0	4.7	3.2	2.4	1.9	-0.5
Complete 4 year	ars	_	4.3	3.8	2.9	3.0	2.9	2.8	2.3	2.3	3.0	2.2	2.1	1.6	1.6	1.4	1.3	0.9	0.6	0.7	+0.2
Region:																					
Northeast		_	5.5	3.6	3.8	4.5	4.1	3.0	2.8	3.3	4.0	2.2	3.5	2.1	1.8	1.6	1.9	1.2	0.4	8.0	+0.5
Midwest		_	4.6	4.8	4.2	2.7	4.8	4.0	3.6	3.1	4.6	3.2	2.9	2.1	1.9	2.2	1.0	1.6	1.0	1.3	+0.3
South		_	5.3	5.2	4.2	3.8	3.0	3.4	3.0	3.0	3.5	2.7	2.4	1.9	1.6	1.7	1.4	1.0	8.0	0.8	0.0
West		_	3.1	5.1	3.9	2.4	1.4	4.2	1.6	2.4	2.3	2.4	2.1	1.2	1.9	1.9	2.4	1.1	8.0	0.7	0.0
Population Dens	sity:																				
Large MSA		_	4.3	3.6	4.0	2.6	4.0	2.8	2.9	2.0	3.3	3.0	2.8	2.0	1.7	1.7	0.9	8.0	8.0	1.0	+0.2
Other MSA		_	4.6	5.8	3.7	3.6	3.3	4.1	2.5	3.3	3.6	2.6	2.8	1.7	1.7	1.7	1.8	1.1	0.6	0.8	+0.2
Non-MSA		_	5.8	4.3	5.1	3.7	2.8	3.7	3.0	3.5	4.1	2.3	2.1	2.1	2.1	2.3	2.5	2.1	1.2	1.0	-0.2
Parental Educat	tion: <sup>b</sup>																				
1.0-2.0 (Low)		_	5.0	7.7	4.2	4.8	3.3	3.9	3.9	2.8	4.1	4.0	3.0	1.2	2.4	1.2	2.2	0.4	1.0	1.8	+0.8
2.5-3.0		_	5.4	5.9	5.0	3.4	4.4	3.8	3.2	2.9	3.9	2.7	3.3	3.2	3.3	1.3	1.6	2.1	0.9	1.4	+0.5
3.5-4.0		_	5.0	4.2	4.1	3.0	2.6	3.6	2.7	2.9	3.8	3.1	2.9	1.5	1.6	2.5	2.2	1.2	8.0	0.5	-0.3
4.5-5.0		_	4.2	3.6	3.7	2.9	4.0	3.4	2.6	3.4	3.3	1.4	1.9	1.7	1.5	1.5	1.1	0.4	0.4	0.7	+0.3
5.5-6.0 (High)		_	4.6	4.7	3.3	3.7	2.8	4.0	2.2	2.8	3.8	3.3	2.2	1.8	0.7	1.7	1.3	1.6	0.6	0.8	+0.2
Race/Ethnicity (2	2-year average): c																				
White		_	_	5.5	4.8	4.1	3.9	3.9	3.7	3.5	3.8	3.4	2.9	2.6	2.0	2.1	1.9	1.6	1.0	0.7	-0.3
African America	an	_	_	1.8	2.5	1.9	1.0	1.5	1.7	1.4	1.2	2.0	2.2	1.1	1.2	1.3	1.3	0.9	1.1	0.8	-0.3
Hispanic		_	_	3.1	4.4	3.6	2.2	2.1	1.9	1.6	2.3	2.8	2.6	2.2	1.7	1.5	1.8	1.7	1.2	1.0	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of four forms; N is one third of N indicated in Table S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 70

RITALIN: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

								Percer	ntage who	o used in	last 12 r	months								2017–
	1975-	0004	0000	0000	0004	0005	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2018
	2000	<u>2001</u>	2002	<u>2003</u>	2004	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	0.4
Total	_	5.1	4.0	4.0	5.1	4.4	4.4	3.8	3.4	2.1	2.7	2.6	2.6	2.3	1.8	2.0	1.2	1.3	0.9	-0.4
Gender:																				
Male	_	6.0	5.1	5.5	6.0	5.4	4.5	3.6	3.7	3.2	3.5	2.7	2.7	2.9	1.9	2.4	1.3	1.6	1.4	-0.2
Female	_	4.1	2.8	2.6	4.0	3.3	3.8	3.5	2.9	1.1	1.7	2.3	1.9	1.6	1.5	1.4	0.6	0.9	0.4	-0.5
College Plans:																				
None or under 4 years	_	6.4	7.7	4.4	6.8	5.3	5.3	5.6	4.2	3.2	5.4	3.1	2.9	4.1	1.4	2.4	2.4	1.5	1.3	-0.2
Complete 4 years	_	4.7	3.0	3.7	4.4	4.1	4.0	3.3	3.2	1.8	2.1	2.5	2.3	1.9	1.6	1.8	8.0	1.1	0.7	-0.4
Region:																				
Northeast	_	4.7	4.5	4.6	4.1	4.7	6.1	4.1	4.2	1.3	3.5	2.1	2.5	2.0	1.6	1.6	0.9	1.5	1.8	+0.4
Midwest	_	7.4	5.4	3.8	6.0	5.3	3.8	5.2	3.4	3.0	2.9	3.0	2.4	2.0	2.1	2.0	1.3	1.1	0.9	-0.2
South	_	4.1	3.4	3.5	4.7	4.6	4.3	3.0	3.4	2.1	2.1	2.7	2.8	2.3	2.5	1.8	1.2	1.3	0.7	-0.6
West	_	3.8	2.6	4.4	5.5	2.7	3.8	3.5	2.8	1.7	2.8	2.2	2.5	2.8	0.4	2.5	1.4	1.2	0.7	-0.5
Population Density:																				
Large MSA	_	7.2	3.9	3.2	4.2	4.1	5.4	4.0	4.1	2.4	2.7	2.2	2.4	1.9	2.1	2.0	1.7	1.5	0.9	-0.6
Other MSA	_	3.7	4.0	5.1	5.6	5.1	3.9	3.4	3.5	2.2	2.8	2.6	2.4	2.5	1.8	1.6	1.0	1.5	0.7	-0.8
Non-MSA	_	5.4	4.0	2.9	4.9	3.4	3.8	4.2	2.4	1.5	2.2	3.1	3.1	2.4	1.2	2.7	1.0	0.4	1.3	+0.8
Parental Education: b																				
1.0–2.0 (Low)	_	5.6	5.3	3.1	5.2	5.5	5.2	2.1	2.0	2.6	2.9	1.9	4.1	2.3	1.9	2.0	1.5	8.0	0.4	-0.4
2.5–3.0	_	4.5	4.2	3.7	4.2	4.2	3.6	4.1	3.4	3.3	3.0	2.5	2.5	2.1	2.0	2.0	1.0	1.8	1.1	-0.8
3.5–4.0	_	5.0	3.9	4.8	6.3	4.1	4.6	3.5	3.6	1.3	2.6	2.7	2.7	2.6	1.1	1.6	0.9	1.3	0.8	-0.5
4.5–5.0	_	4.7	3.5	3.5	4.6	3.9	4.7	4.7	3.1	1.9	2.2	2.0	2.1	2.3	1.2	2.0	1.0	8.0	1.0	+0.2
5.5–6.0 (High)	_	6.6	3.9	4.0	4.5	6.0	4.6	2.7	4.5	1.7	2.4	3.3	2.0	1.3	3.3	1.9	1.4	1.2	0.9	-0.3
Race/Ethnicity (2-year average): c																				
White	_	_	5.4	4.6	5.2	5.3	4.9	4.9	4.3	3.1	2.6	2.7	2.6	2.3	1.9	1.9	1.5	1.2	1.1	-0.1
African American	_	_	0.8	1.2	1.2	2.0	2.3	1.8	1.5	1.5	2.1	1.9	1.6	2.3	2.2	2.3	2.2	1.1	0.9	-0.2
Hispanic	_	_	3.1	3.3	3.6	3.6	3.9	2.7	1.5	1.9	2.1	2.3	2.7	2.3	1.6	1.4	1.2	1.1	1.0	-0.1

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

TABLE 71

ADDERALL: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

			F	ercentage	e who use	ed in last	12 month	S			_
											2017– 2018
	2009	2010	<u>2011</u>	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	2.0	2.3	1.7	1.7	1.8	1.3	1.0	1.5	1.3	1.8	+0.5
Gender:											
Male	2.8	2.5	1.5	1.3	1.6	1.0	1.2	2.0	1.3	1.5	+0.2
Female	1.3	2.1	1.7	1.9	1.9	1.4	1.0	1.2	1.2	1.9	+0.7
College Plans:											
None or under 4 years	6.1	5.4	5.1	4.2	7.4	4.9	3.3	4.5	3.4	2.9	-0.4
Complete 4 years	1.7	2.0	1.4	1.5	1.4	1.0	0.9	1.2	1.0	1.6	+0.5
Region:											
Northeast	1.0	1.5	1.4	1.0	2.2	1.0	1.1	0.6	0.3	1.1	+0.7
Midwest	2.3	3.1	2.3	1.0	0.8	0.9	0.6	1.8	1.7	1.5	-0.1
South	2.3	2.3	1.7	2.6	2.1	1.6	1.5	1.7	1.5	2.2	+0.7
West	1.8	1.9	1.2	1.3	2.0	1.3	0.6	1.6	1.1	2.0	+0.9
Population Density:											
Large MSA	1.9	1.7	0.7	2.1	1.5	1.3	0.9	1.2	0.9	1.8	+0.9 s
Other MSA	2.0	2.8	2.5	1.4	1.7	1.3	1.4	1.5	1.4	2.1	+0.6
Non-MSA	2.0	2.0	1.5	1.5	2.3	1.2	0.5	2.1	1.3	1.2	-0.1
Parental Education: b											
1.0-2.0 (Low)	5.3	3.5	3.7	1.1	2.2	1.9	1.9	1.8	0.9	1.3	+0.4
2.5–3.0	1.8	2.5	2.6	1.9	2.1	1.3	1.0	1.7	1.5	1.9	+0.5
3.5-4.0	2.9	2.0	1.6	1.5	2.3	1.3	1.3	1.7	1.6	1.9	+0.3
4.5-5.0	1.4	2.4	1.3	1.4	1.8	1.0	1.1	1.0	1.4	1.9	+0.5
5.5-6.0 (High)	1.1	1.2	0.7	1.7	0.6	1.0	0.3	1.4	0.2	1.0	+0.7
Race/Ethnicity (2-year average): c											
White	_	2.4	2.1	1.7	1.4	1.3	1.2	1.3	1.5	1.3	-0.2
African American	_	1.2	1.5	1.4	1.6	1.3	1.1	2.0	2.0	1.5	-0.5
Hispanic	_	1.9	1.9	1.7	1.8	1.8	0.9	0.8	1.0	1.2	+0.2

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table D-S1 for the number of subgroup cases. See appendix B for

definition of variables in table. Data based on one of four forms; *N* is one third of *N* indicated in Tables D-S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

°To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 72

ADDERALL: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

			F	Percentag	e who use	ed in last	12 month	S			
											2017– 2018
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	5.7	5.3	4.6	4.5	4.4	4.6	5.2	4.2	4.0	4.1	+0.1
Gender:											
Male	6.1	5.5	5.4	5.0	5.2	4.7	5.3	4.1	4.3	4.8	+0.5
Female	5.3	4.9	3.8	4.1	3.7	4.4	5.2	4.1	3.6	3.2	-0.4
College Plans:											
None or under 4 years	15.1	10.6	11.5	9.3	8.1	10.4	9.2	7.9	9.9	7.6	-2.3
Complete 4 years	4.8	4.6	3.7	4.0	4.0	4.0	4.8	3.7	3.3	3.5	+0.2
Region:											
Northeast	4.2	4.1	4.9	4.0	5.4	3.9	6.1	3.1	2.7	1.9	-0.9
Midwest	8.4	7.6	6.3	5.3	5.8	6.1	5.2	4.2	5.5	5.7	+0.2
South	6.5	5.2	4.6	5.5	4.1	4.9	5.3	4.8	3.7	4.2	+0.5
West	3.4	3.7	2.3	2.5	2.9	3.4	4.2	4.1	3.7	3.6	0.0
Population Density:											
Large MSA	6.2	6.0	4.8	3.7	4.3	5.4	3.8	3.6	5.2	6.0	+0.8
Other MSA	5.9	5.0	4.1	4.4	4.7	4.3	6.0	4.5	3.0	2.6	-0.4
Non-MSA	4.8	4.8	5.1	5.7	4.0	4.2	5.6	4.3	4.3	4.4	+0.2
Parental Education: <sup>b</sup>											
1.0-2.0 (Low)	7.9	6.7	4.7	5.4	4.2	4.4	5.8	3.1	7.3	5.9	-1.4
2.5–3.0	6.6	6.0	5.4	6.3	5.2	4.8	5.2	3.7	2.7	4.5	+1.8
3.5–4.0	5.4	6.2	4.9	4.8	4.5	5.8	6.8	5.5	4.0	4.2	+0.3
4.5-5.0	4.9	3.8	4.5	4.1	4.7	3.9	5.1	3.4	3.1	2.9	-0.2
5.5-6.0 (High)	6.7	4.6	3.2	2.9	3.2	4.2	4.0	4.9	4.5	4.8	+0.3
Race/Ethnicity (2-year average): c											
White	_	6.6	5.7	5.3	5.6	5.9	6.0	5.6	4.5	4.1	-0.4
African American	_	2.2	2.7	1.7	2.0	3.0	3.5	2.9	2.9	2.9	0.0
Hispanic	_	4.2	3.9	3.8	2.5	2.0	3.3	4.0	4.6	4.5	-0.1

otes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table D-S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table D-S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>°</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 73

ADDERALL: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Percentag	de who used	in last 12	2 months
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											2017-
											2017-
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	5.4	6.5	6.5	7.6	7.4	6.8	7.5	6.2	5.5	4.6	-1.0
Gender:											
Male	7.4	7.5	7.4	8.0	8.7	7.7	8.0	7.7	7.1	4.9	-2.2 s
Female	3.8	5.5	5.5	6.9	6.0	6.0	6.9	4.4	4.2	3.9	-0.3
College Plans:											
None or under 4 years	7.0	10.9	7.5	7.8	9.2	5.4	8.6	7.3	7.0	7.0	-0.1
Complete 4 years	5.0	5.7	6.4	7.4	6.8	7.0	7.0	5.8	5.1	4.0	-1.1
Region:											
Northeast	5.1	7.7	7.2	7.6	5.2	7.2	6.9	5.1	5.9	5.6	-0.3
Midwest	7.9	7.3	7.7	10.1	8.7	9.2	10.3	7.6	5.7	4.8	-0.9
South	5.1	6.2	6.3	6.4	8.3	7.0	6.8	6.0	5.7	4.6	-1.1
West	3.2	5.3	5.3	6.6	6.3	3.9	6.4	5.7	4.9	3.7	-1.2
Population Density:											
Large MSA	5.9	7.0	4.7	9.1	7.2	7.8	7.5	6.8	5.0	4.2	-0.8
Other MSA	5.5	6.5	7.9	7.4	8.1	7.2	7.3	6.1	5.9	4.8	-1.1
Non-MSA	4.5	6.0	6.1	6.2	5.7	4.3	8.0	5.2	5.6	4.8	-0.8
Parental Education: b											
1.0-2.0 (Low)	4.0	5.2	5.6	5.8	7.0	2.7	5.7	4.9	3.7	3.0	-0.8
2.5-3.0	5.7	6.0	7.2	6.3	5.7	7.3	7.0	4.5	6.9	4.6	-2.2
3.5-4.0	6.1	6.7	5.9	8.4	8.4	6.6	7.9	7.5	5.7	4.8	-0.9
4.5-5.0	5.5	7.0	7.1	9.4	7.7	7.7	7.8	6.9	3.6	4.4	+0.8
5.5-6.0 (High)	4.7	7.0	6.2	6.6	8.6	8.8	8.5	5.8	8.5	6.0	-2.5
Race/Ethnicity (2-year average): c											
White	_	7.5	8.1	8.8	9.1	8.1	8.4	8.6	7.7	6.6	-1.1 s
African American	_	2.9	2.2	2.1	3.6	4.6	5.9	5.1	2.2	1.6	-0.6
Hispanic	_	3.1	2.9	3.7	4.8	4.9	4.4	4.7	4.3	3.6	-0.7

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for

the two most recent years is due to rounding. See Table D-S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

# TABLE 74 PROVIGIL: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

## Percentage who used in

					last 12	months					2017-
											2018
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	13,700	14,400	14,100	_	_	_	_	_	_	_	
Total	1.8	1.3	1.5	_	_	_	_	_	_	_	_
Gender:											
Male	2.3	1.8	1.4	_	_	_	_	_	_	_	_
Female	1.3	0.6	1.3	_	_	_	_	_	_	_	_
College Plans:											
None or under 4 years	4.0	4.0	2.5	_	_	_	_	_	_	_	_
Complete 4 years	1.3	8.0	1.1	_	_	_	_	_	_	_	_
Region:											
Northeast	1.9	1.7	2.0	_	_	_	_	_	_	_	_
Midwest	2.0	1.7	1.0	_	_	_	_	_	_	_	_
South	1.9	1.2	1.7	_	_	_	_	_	_	_	_
West	1.4	0.9	1.2	_	_	_	_	_	_	_	_
Population Density:											
Large MSA	1.9	1.0	1.4	_	_	_	_	_	_	_	_
Other MSA	1.7	1.5	1.3	_	_	_	_	_	_	_	_
Non-MSA	2.0	1.6	1.8	_	_	_	_	_	_	_	_
Parental Education: b											
1.0-2.0 (Low)	3.8	1.7	2.4	_	_	_	_	_	_	_	_
2.5–3.0	2.0	1.6	2.0	_	_	_	_	_	_	_	_
3.5-4.0	1.7	1.2	1.6	_	_	_	_	_	_	_	_
4.5–5.0	1.2	8.0	0.5	_	_	_	_	_	_	_	_
5.5-6.0 (High)	1.1	1.8	0.9	_	_	_	_	_	_	_	_
Race/Ethnicity (2-year data): c											
White	_	1.5	1.3	_	_	_	_	_	_	_	_
African American	_	1.5	1.5	_	_	_	_	_	_	_	_
Hispanic	_	1.5	1.2	_	_	_	_	_	_	_	_

Source. The Monitoring the Future study, the University of Michigan.

tes. '—'

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 75

METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

									Percer	ntage wh	o used in	last 12 r	months									2017–
	1991–	4000		0004			0004	0005		0007			0040	0044	0040	0010	0044	0045	0040	00.17	0040	2018
A supervisor of a supervisor of A	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	change
Approximate weighted N	= -	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	0.4
Total	_	3.2	2.5	2.8	2.2	2.5	1.5	1.8	1.8	1.1	1.2	1.0	1.2	8.0	1.0	1.0	0.6	0.5	0.4	0.5	0.4	-0.1
Gender:				0.5						0.7			4.0	0.5			0.5	0.5	0.4	2.4		
Male	_	3.1	2.2	2.5	2.0	2.0	1.1	1.7	1.4	0.7	0.9	1.0	1.3	0.5	8.0	0.7	0.5	0.5	0.4	0.4	0.3	0.0
Female	_	3.2	2.8	3.0	2.4	3.0	1.7	1.9	2.3	1.5	1.5	1.0	1.1	1.0	1.1	1.0	0.6	0.5	0.4	0.6	0.5	-0.1
College Plans:																						
None or under 4 years	_	7.4	6.8	6.6	6.6	7.9	6.6	6.8	6.3	3.2	3.8	3.1	2.7	3.6	5.0	4.4	3.0	1.2	1.9	1.8	1.8	0.0
Complete 4 years	_	2.7	2.0	2.3	1.7	2.0	1.0	1.2	1.3	0.9	1.0	0.9	1.1	0.6	0.7	0.7	0.4	0.4	0.2	0.3	0.2	-0.1
Region:																						
Northeast	_	1.6	2.0	1.2	8.0	1.7	1.0	0.6	0.7	0.5	8.0	0.3	0.6	0.6	8.0	0.4	0.5	0.2	0.2	0.0	0.4	+0.4
Midwest	_	4.4	3.0	3.2	2.5	3.5	2.1	2.0	1.7	1.5	1.6	0.9	1.6	0.5	0.3	0.7	8.0	8.0	0.4	0.4	0.1	-0.2
South	_	3.4	2.4	3.4	2.8	2.4	1.4	2.0	1.6	1.1	1.4	1.1	1.0	0.9	1.2	1.0	0.4	0.4	0.5	0.6	0.6	0.0
West	_	2.8	2.5	2.4	2.0	2.4	1.6	2.1	3.1	1.2	1.0	1.4	1.6	1.1	1.4	1.5	0.9	0.6	0.4	0.8	0.5	-0.3
Population Density:																						
Large MSA	_	2.2	2.1	1.6	1.3	2.0	1.5	1.3	1.5	0.4	0.7	1.1	0.9	0.6	0.9	1.5	0.7	0.3	0.3	0.4	0.5	+0.1
Other MSA	_	3.6	2.6	3.4	2.5	2.4	1.7	2.0	2.1	1.4	1.5	1.0	1.3	1.2	1.2	0.6	0.6	0.6	0.3	0.6	0.5	0.0
Non-MSA	_	3.5	3.0	2.8	2.7	3.4	1.2	2.1	1.8	1.6	1.4	0.9	1.3	0.3	0.7	0.9	0.5	0.6	0.7	0.5	0.1	-0.4 s
Parental Education: a																						
1.0-2.0 (Low)	_	6.3	5.0	4.4	4.3	4.2	4.4	4.1	3.9	1.9	2.1	1.7	2.2	3.1	1.5	2.1	0.2	0.4	8.0	1.2	1.4	+0.2
2.5–3.0	_	4.3	3.1	4.0	3.0	3.4	1.3	1.5	1.8	1.4	1.7	0.9	1.0	1.5	1.3	0.7	8.0	0.2	0.2	0.5	0.7	+0.2
3.5-4.0	_	3.3	2.4	3.0	2.0	2.5	1.8	2.9	2.2	1.2	1.3	1.1	1.3	0.5	1.4	0.7	0.6	0.0	0.5	0.6	0.6	0.0
4.5–5.0	_	1.9	1.3	1.6	1.9	1.6	1.0	0.9	1.2	0.9	0.9	0.6	1.1	0.4	0.6	0.7	0.6	0.5	0.2	0.3	0.1	-0.2
5.5-6.0 (High)	_	3.2	2.2	1.2	1.1	2.3	0.9	0.7	1.7	0.8	1.1	1.6	1.1	0.4	0.7	0.8	0.2	0.6	0.2	0.2	0.0	-0.2
Race/Ethnicity (2-year average): b																						
White	_	_	3.2	3.1	2.8	2.7	2.2	1.6	1.6	1.4	1.1	1.0	1.0	0.8	0.7	0.7	0.6	0.6	0.5	0.3	0.2	-0.1
African American	_	_	1.1	0.8	0.6	0.8	0.6	0.5	0.8	0.6	0.5	0.7	0.5	0.6	0.6	0.4	0.3	0.3	0.2	0.2	0.3	+0.1
Hispanic			4.0	3.3	3.2	3.2	3.0	2.8	2.8	2.3	1.7	1.5	1.8	1.9	1.5	1.5	1.1	0.4	0.6	0.7	1.0	+0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 76

METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

									Percer	ntage wh	o used in	last 12 r	months									2017-
	1991–																					2018
Annual control of a superior of A A	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	2004	<u>2005</u>	2006	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N	= —	14,000	13,600	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	4.6	4.0	3.7	3.9	3.3	3.0	2.9	1.8	1.6	1.5	1.6	1.6	1.4	1.0	1.0	0.8	8.0	0.4	0.4	0.4	0.0
Gender:																						
Male	_	4.5	4.5	3.8	3.9	3.0	2.7	2.6	1.7	1.4	1.4	1.4	1.5	1.3	1.1	1.0	0.7	0.6	0.4	0.4	0.4	0.0
Female	_	4.7	3.6	3.5	3.6	3.7	3.3	3.0	2.0	1.8	1.6	1.7	1.8	1.4	0.9	0.8	0.8	0.9	0.5	0.3	0.4	+0.1
College Plans:																						
None or under 4 years	_	9.1	8.8	7.0	9.1	9.4	6.0	7.3	5.8	3.9	3.6	4.6	4.8	4.6	4.1	2.4	3.6	3.4	2.2	1.2	1.5	+0.3
Complete 4 years	_	3.9	3.3	3.1	3.0	2.3	2.6	2.2	1.3	1.2	1.2	1.3	1.2	1.0	0.7	0.9	0.5	0.5	0.2	0.2	0.2	0.0
Region:																						
Northeast	_	5.1	4.1	2.3	1.5	2.1	2.5	3.0	1.5	1.4	0.5	1.3	1.4	2.0	1.0	0.4	0.1	0.3	0.2	0.1	0.3	+0.2
Midwest	_	4.6	4.0	3.8	3.0	3.4	2.2	3.4	1.7	0.9	1.4	1.8	1.1	0.9	0.5	0.7	0.9	0.6	0.9	8.0	0.3	-0.6
South	_	4.0	3.8	4.0	4.6	3.8	2.9	2.2	2.3	1.9	1.9	1.4	1.5	1.4	1.0	0.9	1.2	1.2	0.3	0.2	0.6	+0.4
West	_	5.1	4.4	4.6	5.8	3.8	4.7	3.0	1.7	2.3	1.8	2.1	2.6	1.4	1.4	1.9	0.6	8.0	0.3	0.3	0.4	+0.1
Population Density:																						
Large MSA	_	3.8	4.4	4.0	3.1	2.3	2.7	2.9	2.2	1.7	1.2	1.5	1.5	1.0	1.1	1.0	0.7	0.7	0.1	0.3	0.4	+0.1
Other MSA	_	4.8	3.4	3.6	4.4	3.8	3.4	3.0	1.5	1.5	1.8	1.6	1.9	1.7	0.6	1.2	0.5	8.0	0.4	0.4	0.3	-0.1
Non-MSA	_	5.2	4.8	3.6	3.7	3.7	2.5	2.5	2.1	1.8	1.3	1.6	1.3	1.4	1.7	0.6	1.6	0.9	1.3	0.4	0.7	+0.3
Parental Education: a																						
1.0-2.0 (Low)	_	7.2	7.0	5.6	6.2	7.3	4.5	4.2	3.8	3.8	2.6	3.7	3.4	2.9	2.5	1.9	1.2	1.0	0.7	0.3	0.7	+0.4
2.5–3.0	_	4.2	4.3	4.6	4.9	4.1	3.7	3.8	2.7	1.6	2.3	2.7	2.3	1.2	1.7	1.4	0.4	1.0	0.3	0.9	0.3	-0.6
3.5-4.0	_	4.8	4.3	3.2	3.7	3.2	3.3	2.0	1.4	1.7	1.0	1.4	1.9	1.3	0.7	1.0	1.2	1.1	0.5	0.1	0.7	+0.6
4.5–5.0	_	4.8	3.5	3.6	2.4	2.2	2.3	3.2	1.4	1.0	1.6	0.7	0.8	1.3	8.0	0.3	0.4	0.6	0.2	0.2	0.1	0.0
5.5-6.0 (High)	_	3.3	3.5	2.5	4.0	2.1	1.7	1.3	1.3	1.0	0.6	0.7	0.8	1.0	0.3	1.2	0.6	0.3	0.6	0.1	0.7	+0.6
Race/Ethnicity (2-year average): b																						
White	_	_	4.7	4.1	4.1	4.2	3.4	2.9	2.4	1.8	1.6	1.4	1.5	1.5	1.2	0.9	0.9	0.8	0.6	0.4	0.3	-0.2
African American	_	_	0.4	1.0	1.1	0.6	8.0	1.1	1.0	8.0	0.5	0.4	0.6	0.7	0.3	0.3	0.6	0.9	0.4	0.5	0.4	0.0
Hispanic	_	_	3.9	3.0	4.4	4.6	4.6	5.0	3.3	1.9	2.3	2.7	2.5	1.9	1.8	2.1	1.2	1.0	0.8	0.3	0.4	+0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S2.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 77

METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

										Percer	tage who	used in	last 12 r	months									2017–
		1975–																					2018
_		<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
	Approximate weighted N =	_	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total		_	4.7	4.3	3.9	3.6	3.2	3.4	2.5	2.5	1.7	1.2	1.2	1.0	1.4	1.1	0.9	1.0	0.6	0.6	0.6	0.5	-0.1
Gender:																							
Male		_	5.0	4.4	4.3	4.3	3.6	3.7	2.7	2.0	1.8	1.8	1.3	1.5	1.6	1.2	1.3	1.3	0.7	0.9	0.6	0.7	+0.1
Female		_	4.5	4.2	3.4	3.0	2.9	3.1	2.3	3.0	1.6	0.7	1.0	0.5	1.1	0.9	0.4	0.7	0.4	0.4	0.5	0.2	-0.3
College Plans:																							
None or under	4 years	_	6.8	6.2	6.9	6.5	5.8	6.7	4.9	3.7	3.9	1.9	3.1	1.8	1.9	2.3	1.6	1.3	2.0	1.3	1.6	1.0	-0.6
Complete 4 year	ars	_	4.0	3.8	3.2	2.7	2.4	2.4	2.0	2.1	1.2	1.0	8.0	8.0	1.3	8.0	0.6	0.9	0.3	0.5	0.4	0.4	0.0
Region:																							
Northeast		_	3.1	4.5	3.4	1.6	1.8	1.3	0.6	1.4	1.4	1.1	1.0	1.2	2.1	0.5	1.3	0.9	0.0	0.6	0.6	0.1	-0.5
Midwest		_	5.1	4.1	4.7	4.5	4.2	3.3	4.4	1.2	1.2	8.0	1.2	1.1	1.2	0.9	8.0	0.7	1.2	0.4	0.6	1.3	+0.8
South		_	3.9	3.7	3.4	3.0	2.8	4.0	2.2	3.1	2.1	1.2	1.4	0.9	1.1	0.9	0.5	1.2	0.4	0.4	0.6	0.5	-0.1
West		_	7.1	5.4	4.4	5.4	4.0	4.9	2.7	3.8	1.5	1.9	1.0	1.2	1.5	1.8	1.4	0.7	0.7	1.4	0.7	0.2	-0.5
Population Dens	sity:																						
Large MSA		_	4.2	3.6	2.7	2.1	1.8	2.8	1.5	3.4	1.3	1.3	1.1	1.0	0.9	1.2	8.0	0.9	0.5	0.7	0.6	0.4	-0.2
Other MSA		_	4.0	4.9	4.0	4.4	3.0	2.6	2.4	2.0	1.7	1.2	1.1	1.1	2.0	1.2	0.9	1.0	0.5	8.0	0.7	0.6	-0.1
Non-MSA		_	6.4	4.3	5.3	4.1	5.3	5.5	4.1	2.0	2.2	1.3	1.4	1.0	0.6	0.5	1.2	0.8	1.0	0.2	0.4	0.6	+0.2
Parental Educati	ion: <sup>a</sup>																						
1.0-2.0 (Low)		_	6.0	7.7	5.0	3.5	4.3	5.5	4.0	2.7	3.1	1.6	3.5	2.0	3.1	1.4	1.4	1.6	1.1	2.2	1.0	0.9	-0.1
2.5-3.0		_	4.8	3.5	4.8	4.9	3.6	4.1	3.0	2.4	2.2	0.6	1.4	1.1	1.0	0.6	1.2	1.1	8.0	0.3	0.2	0.4	+0.2
3.5-4.0		_	5.2	3.9	3.8	3.8	3.6	3.1	3.0	2.9	1.4	1.3	8.0	0.9	1.2	1.3	0.6	0.7	0.5	0.3	0.8	0.4	-0.4
4.5-5.0		_	3.7	4.2	3.1	2.9	2.9	2.8	2.1	2.2	1.7	8.0	1.0	1.0	1.2	1.2	0.7	0.9	0.6	0.4	0.6	0.6	0.0
5.5-6.0 (High)		_	4.2	5.5	3.2	3.1	1.0	3.0	1.2	1.2	8.0	1.6	0.4	0.4	1.3	0.7	0.9	0.9	0.2	0.7	0.1	0.3	+0.1
Race/Ethnicity (2	2-year average): b																						
White		_	_	4.9	4.6	4.2	3.5	3.5	3.3	2.6	2.1	1.5	1.1	1.1	1.3	1.2	0.9	0.7	0.6	0.4	0.5	0.7	+0.2
African America	an	_	_	1.1	1.0	0.5	1.4	1.8	0.7	0.4	0.7	1.1	1.1	0.5	0.4	0.5	0.4	1.1	1.0	0.3	0.2	0.2	0.0
Hispanic				4.9	4.6	3.9	3.4	3.4	3.4	3.7	2.7	1.1	1.2	1.1	1.2	1.2	1.2	1.5	1.0	0.8	0.8	0.5	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 78

CRYSTAL METHAMPHETAMINE (ICE): Trends in Annual Prevalence of Use by Subgroups in Grade 12

							Percen	tage who	used ir	last 12	months						
	1975-																
	<u>1989</u>	1990	1991	1992	1993	1994	<u>1995</u>	<u>1996</u>	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	_	15,200	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	_	1.3	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	1.9	2.2	2.5	3.1	2.0	2.1	2.3
Gender:																	
Male	_	1.5	1.9	1.5	1.9	2.2	2.6	3.9	2.6	3.9	2.2	2.5	2.7	3.5	2.5	2.6	2.5
Female	_	1.0	0.9	1.0	1.2	1.3	2.1	1.7	2.1	2.1	1.6	1.9	2.1	2.5	1.5	1.6	2.0
College Plans:																	
None or under 4 years	_	1.4	1.9	2.2	2.6	2.4	4.3	5.1	3.8	5.0	2.3	3.8	4.2	4.8	2.6	4.4	4.2
Complete 4 years	_	1.2	1.2	1.0	1.4	1.5	1.8	2.1	1.9	2.4	1.8	1.7	2.0	2.6	1.9	1.5	1.8
Region:																	
Northeast	_	1.6	1.1	0.9	1.1	0.9	1.4	3.2	2.8	2.6	1.0	1.0	1.9	2.6	1.3	0.9	1.2
Midwest	_	1.1	1.4	1.1	1.5	2.3	2.2	2.1	1.9	2.7	1.7	2.8	2.1	2.0	1.0	1.8	2.2
South	_	0.5	1.0	1.0	1.2	1.2	1.8	2.0	1.6	3.1	2.3	2.0	1.7	3.5	2.3	2.3	2.7
West	_	2.5	2.2	2.6	3.2	2.8	4.7	4.9	3.7	3.4	2.5	2.9	4.7	4.0	3.4	3.5	3.1
Population Density:																	
Large MSA	_	1.2	1.3	1.5	2.2	2.0	3.0	4.6	2.9	2.5	1.6	2.3	2.7	2.2	1.9	2.3	2.1
Other MSA	_	1.3	1.7	1.3	1.7	1.8	2.0	2.0	2.0	3.3	2.1	1.7	2.3	3.6	2.0	1.4	2.3
Non-MSA	_	1.2	8.0	1.2	1.2	1.6	2.3	2.6	2.1	2.8	2.0	3.0	2.5	3.2	2.1	3.2	2.7
Parental Education: a																	
1.0-2.0 (Low)	_	1.1	1.0	0.9	1.6	1.0	3.2	3.4	2.2	2.8	3.6	3.2	5.9	3.7	3.7	4.0	2.6
2.5-3.0	_	1.4	1.1	1.1	1.2	3.0	2.6	3.0	2.5	3.2	1.3	1.7	2.4	3.6	1.7	2.7	2.6
3.5-4.0	_	1.4	1.2	1.5	2.3	1.6	1.9	2.6	2.2	3.6	2.5	1.9	2.8	2.4	2.2	2.4	3.1
4.5-5.0	_	1.2	1.8	1.4	1.8	1.3	2.5	2.9	2.9	2.6	1.3	2.8	1.5	2.8	1.5	1.0	1.4
5.5-6.0 (High)	_	1.1	1.0	1.4	1.3	1.0	2.2	2.5	1.4	1.9	2.1	1.3	2.0	2.8	1.8	0.9	1.1
Race/Ethnicity (2-year average	): <sup>b</sup>																
White	_	_	1.3	1.3	1.5	1.7	2.0	2.5	2.6	2.9	2.8	2.3	2.4	2.6	2.3	2.0	2.0
African American	_	_	0.8	1.0	0.8	0.5	0.5	0.3	0.5	1.0	0.7	0.7	1.1	1.6	1.4	0.7	1.0
Hispanic	_	_	1.3	1.8	2.3	2.1	2.7	4.0	2.8	1.7	1.7	2.4	3.4	3.6	2.5	2.6	3.4

TABLE 78 (cont.)

CRYSTAL METHAMPHETAMINE (ICE): Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Percent	tage who	used in	last 12	months					
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =		14,500	14,000	13,700	,	-	-		12,400			,	13,300	
Total	1.9	1.6	1.1	0.9	0.9	1.2	0.8	1.1	0.8	0.5	0.8	0.8	0.6	-0.2
Gender:														
Male	1.5	1.8	1.4	1.1	1.1	1.0	1.0	1.3	8.0	0.5	1.0	0.4	0.6	+0.2
Female	2.2	1.4	0.7	8.0	0.6	1.1	0.7	0.8	0.7	0.5	0.6	1.2	0.2	-1.0 ss
College Plans:														
None or under 4 years	3.5	3.7	1.7	1.8	2.1	2.9	1.9	2.4	1.7	1.0	1.6	1.3	1.4	+0.1
Complete 4 years	1.3	1.2	8.0	0.7	0.6	0.9	0.5	8.0	0.5	0.4	0.6	0.7	0.2	-0.5 s
Region:														
Northeast	1.0	1.1	1.4	0.5	0.6	0.4	0.9	1.0	0.3	0.4	0.4	0.5	0.5	0.0
Midwest	1.0	1.5	0.5	1.0	0.9	8.0	1.0	0.6	0.9	1.2	8.0	0.6	0.6	0.0
South	2.9	1.7	0.9	8.0	0.9	1.4	0.6	1.1	8.0	0.4	1.0	1.1	0.7	-0.5
West	1.9	2.1	1.7	1.5	1.2	1.8	0.9	1.6	1.1	0.4	1.0	0.6	0.4	-0.3
Population Density:														
Large MSA	2.2	1.3	0.6	0.9	0.9	1.1	1.2	1.3	1.2	0.8	8.0	0.7	0.6	-0.1
Other MSA	1.5	1.7	1.2	8.0	0.9	1.3	0.7	1.2	0.7	0.3	0.7	0.7	0.2	-0.5
Non-MSA	2.1	1.9	1.3	1.3	1.1	1.0	0.7	0.7	0.6	0.7	1.3	1.1	1.2	+0.2
Parental Education: a														
1.0-2.0 (Low)	4.2	3.2	1.4	2.8	1.9	3.6	1.1	3.8	3.0	1.4	1.2	1.6	0.9	-0.7
2.5-3.0	2.6	2.1	0.6	8.0	1.6	0.3	1.6	1.3	8.0	1.0	0.7	0.7	0.4	-0.3
3.5-4.0	1.4	1.4	1.0	1.2	0.4	1.5	0.6	0.9	0.6	0.4	1.0	1.2	0.7	-0.5
4.5-5.0	1.0	1.5	0.7	0.3	0.5	0.5	0.4	0.4	0.3	0.3	0.6	0.2	0.4	+0.3
5.5-6.0 (High)	1.4	0.8	1.2	0.6	0.7	1.3	0.2	0.4	0.2	0.0	1.0	0.5	0.3	-0.2
Race/Ethnicity (2-year average)	: b													
White	1.9	1.7	1.3	0.7	0.5	0.6	0.7	0.6	0.6	0.3	0.3	0.5	0.4	0.0
African American	1.0	0.6	0.6	0.7	0.9	1.1	8.0	1.0	1.3	0.6	0.6	0.8	8.0	0.0
Hispanic	3.3	2.9	1.8	1.4	1.7	2.4	2.1	1.4	2.0	2.0	1.6	1.2	0.9	-0.4

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 79

BATH SALTS (SYNTHETIC STIMULANTS): Trends in Annual Prevalence of Use by Subgroups in Grade 8

		P	ercentage	e who use	d in last 1	2 months	;		
									2017-
	1991–								2018
	<u>2011</u>	2012	2013	2014	<u>2015</u>	2016	2017	2018	change
Approximate weighted N =	_	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	8.0	1.0	0.5	0.4	0.9	0.5	0.9	+0.3
Gender:									
Male	_	0.6	1.1	0.5	0.5	1.2	0.9	1.4	+0.5
Female	_	0.9	0.9	0.5	0.3	0.7	0.3	0.4	+0.2
College Plans:									
None or under 4 years	_	3.6	3.1	2.3	1.0	3.2	2.5	3.3	+0.8
Complete 4 years	_	0.6	8.0	0.4	0.3	0.6	0.3	0.6	+0.2
Region:									
Northeast	_	0.3	0.7	0.9	0.1	0.5	0.4	0.6	+0.2
Midwest	_	0.5	0.6	0.3	0.2	0.7	0.3	0.2	-0.1
South	_	1.3	1.0	0.5	0.6	1.0	0.5	1.6	+1.0 s
West	_	0.7	1.5	0.4	0.3	1.1	0.9	0.7	-0.2
Population Density:									
Large MSA	_	1.0	1.4	8.0	0.5	1.2	0.5	1.1	+0.6
Other MSA	_	0.7	8.0	0.4	0.3	0.7	0.6	8.0	+0.1
Non-MSA	_	8.0	8.0	0.3	0.3	1.0	0.4	8.0	+0.4
Parental Education: a									
1.0–2.0 (Low)	_	0.9	2.7	1.0	0.5	2.5	1.6	1.1	-0.5
2.5–3.0	_	0.6	0.6	0.4	0.4	0.6	0.4	0.3	-0.1
3.5–4.0	_	8.0	8.0	0.2	0.5	1.3	0.4	1.1	+0.7
4.5–5.0	_	0.6	1.0	0.7	0.3	0.3	0.4	8.0	+0.5
5.5-6.0 (High)	_	8.0	0.4	0.6	0.2	0.5	0.5	0.9	+0.5
Race/Ethnicity (2-year data): <sup>b</sup>									
White	_	_	0.5	0.4	0.3	0.4	0.4	0.4	0.0
African American	_	_	1.3	1.0	0.7	1.4	1.6	1.9	+0.3
Hispanic		_	1.7	1.3	0.5	0.8	0.8	0.9	0.0

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to

TABLE 80

BATH SALTS (SYNTHETIC STIMULANTS): Trends in Annual Prevalence of Use by Subgroups in Grade 10

		F	Percentage	e who use	ed in last 1	2 months	i		
									2017-
	1991–								2018
	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	0.6	0.9	0.9	0.7	8.0	0.4	0.5	+0.1
Gender:									
Male	_	0.9	1.3	1.0	8.0	1.1	0.4	0.7	+0.3
Female	_	0.4	0.6	0.7	0.5	0.4	0.4	0.3	-0.1
College Plans:									
None or under 4 years	_	1.9	3.7	3.6	3.6	2.4	8.0	1.6	+0.8
Complete 4 years	_	0.5	0.6	0.5	0.4	0.6	0.4	0.4	0.0
Region:									
Northeast	_	0.7	1.4	0.6	0.4	1.3	0.2	0.7	+0.4
Midwest	_	0.8	8.0	0.7	0.4	0.7	0.4	0.4	0.0
South	_	0.5	8.0	1.0	0.9	0.6	0.3	0.6	+0.3
West	_	0.6	0.9	1.1	0.9	0.7	0.9	0.6	-0.3
Population Density:									
Large MSA	_	1.0	0.7	1.0	0.5	0.4	0.4	0.6	+0.2
Other MSA	_	0.3	8.0	0.6	0.7	0.8	0.3	0.5	+0.2
Non-MSA	_	0.8	1.7	1.4	0.9	1.5	0.7	0.5	-0.1
Parental Education: a									
1.0-2.0 (Low)	_	0.7	0.4	0.9	1.8	1.0	1.0	1.2	+0.2
2.5–3.0	_	0.9	2.0	0.6	1.2	0.7	0.4	0.5	+0.1
3.5–4.0	_	0.4	0.6	1.5	0.4	1.0	0.6	0.5	-0.1
4.5–5.0	_	0.7	0.4	0.4	0.3	0.3	0.2	0.4	+0.1
5.5-6.0 (High)	_	0.2	1.1	0.9	0.5	1.0	0.1	0.2	+0.1
Race/Ethnicity (2-year data): b									
White	_	_	0.7	0.8	0.6	0.6	0.6	0.3	-0.3 s
African American	_	_	8.0	1.4	1.7	1.3	0.9	0.5	-0.4
Hispanic	_	_	0.7	0.6	0.5	0.8	0.9	0.9	+0.1

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases.

See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to

TABLE 81

BATH SALTS (SYNTHETIC STIMULANTS): Trends in Annual Prevalence of Use by Subgroups in Grade 12

			Perce	entage wh	o used in	last 12 m	onths		
•									2017–
	1991–								2018
	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	1.3	0.9	0.9	1.0	8.0	0.6	0.6	0.0
Gender:									
Male	_	1.2	1.0	1.1	1.2	0.8	0.6	0.4	-0.2
Female	_	1.1	0.6	0.5	0.6	0.3	0.7	0.5	-0.1
College Plans:									
None or under 4 years	_	1.8	1.8	1.5	1.6	2.1	1.8	1.4	-0.5
Complete 4 years	_	1.1	0.6	0.6	0.8	0.3	0.3	0.3	0.0
Region:									
Northeast	_	1.2	0.7	1.4	0.1	0.6	0.6	0.3	-0.4
Midwest	_	1.3	1.0	0.7	1.5	1.0	0.4	0.5	+0.1
South	_	1.7	1.0	1.2	1.3	0.9	0.7	8.0	+0.1
West	_	1.0	8.0	0.2	0.7	0.4	0.6	0.5	-0.1
Population Density:									
Large MSA	_	1.3	0.9	1.0	1.1	0.5	0.6	0.7	+0.1
Other MSA	_	1.4	0.7	1.0	8.0	0.9	0.5	0.2	-0.3
Non-MSA	_	1.2	1.3	0.5	1.4	0.7	0.9	1.2	+0.3
Parental Education: a									
1.0-2.0 (Low)	_	2.1	1.7	2.0	1.6	1.9	1.5	1.2	-0.3
2.5–3.0	_	1.7	0.9	1.5	0.9	1.0	0.9	1.0	+0.1
3.5-4.0	_	0.8	1.0	0.3	0.6	0.6	0.4	0.1	-0.3
4.5-5.0	_	1.2	0.6	0.5	1.0	0.3	0.4	0.4	0.0
5.5-6.0 (High)	_	1.3	0.2	0.2	0.4	0.1	0.2	0.3	+0.1
Race/Ethnicity (2-year data): b									
White	_	_	1.0	0.5	0.6	0.7	0.5	0.4	0.0
African American	_	_	1.6	2.2	2.3	1.7	1.2	1.0	-0.2

Hispanic

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases.

See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

1.2

8.0

0.6

0.8

8.0

-0.1

 ${\it Caution:} \quad \hbox{Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.}$ 

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 82

SEDATIVES (BARBITURATES): a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Pe	ercentage	who use	ed in last	12 mont	hs					
Approximate weighted N =	<u>1975</u> 9.400	<u>1976</u> 15.400	<u>1977</u> 17,100	<u>1978</u> 17,800	<u>1979</u> 15,500	<u>1980</u> 15,900	<u>1981</u> 17,500	<u>1982</u> 17,700	1983 16,300	<u>1984</u> 15,900	<u>1985</u> 16,000	<u>1986</u> 15,200	<u>1987</u> 16,300	1988 16,300	<u>1989</u> 16.700	<u>1990</u> 15,200
Total	10.7	9.6	9.3	8.1	7.5	6.8	6.6	5.5	5.2	4.9	4.6	4.2	3.6	3.2	3.3	3.4
Gender:																
Male	12.3	9.9	10.2	8.4	7.6	7.3	7.2	5.9	5.9	5.5	5.2	4.7	4.0	3.4	3.5	3.8
Female	9.9	9.2	8.4	7.7	7.0	6.0	5.8	5.0	4.2	4.0	3.9	3.8	3.2	3.0	3.0	3.0
College Plans:																
None or under 4 years	_	11.6	11.4	9.1	9.3	9.0	8.1	7.4	6.7	6.2	6.2	6.1	4.7	4.1	4.8	4.7
Complete 4 years	_	7.3	6.8	6.8	5.2	4.8	5.1	3.8	3.8	3.7	3.6	3.0	3.0	2.7	2.5	2.8
Region:																
Northeast	11.5	10.4	9.2	9.6	9.6	6.9	6.8	5.6	4.7	5.1	5.3	5.2	4.2	2.5	3.2	2.9
Midwest	12.8	10.4	10.7	7.9	6.9	7.3	7.5	5.4	6.1	4.9	4.9	4.2	3.3	2.5	3.2	3.5
South	9.9	9.7	9.3	7.8	7.3	7.0	5.5	6.3	5.2	5.2	4.2	4.1	3.7	4.1	3.7	4.0
West	10.0	6.7	6.6	6.6	5.7	5.2	6.5	3.9	4.0	4.2	4.1	3.3	3.2	3.2	2.7	2.9
Population Density:																
Large MSA	11.1	10.2	8.1	8.1	8.3	6.6	6.9	5.3	5.2	4.4	4.4	3.7	3.3	2.8	2.6	2.6
Other MSA	11.3	9.8	9.9	8.2	7.3	6.5	6.4	5.7	5.3	4.9	4.2	4.4	3.6	3.4	3.1	3.6
Non-MSA	9.8	9.0	9.5	8.1	7.0	7.2	6.6	5.5	5.0	5.5	5.4	4.5	3.9	3.2	4.4	3.9
Parental Education: °																
1.0-2.0 (Low)	10.3	9.1	8.0	7.5	7.8	8.0	6.5	5.8	6.1	4.7	5.0	4.8	3.8	4.3	4.1	3.1
2.5–3.0	10.3	10.2	10.3	8.2	7.3	7.2	6.5	5.7	5.7	5.2	5.3	4.6	3.6	3.1	3.4	3.7
3.5-4.0	9.5	9.6	9.0	8.3	7.4	6.3	6.5	5.1	4.6	5.0	4.4	4.4	3.2	2.9	3.2	3.9
4.5–5.0	10.7	10.1	9.1	7.8	6.6	5.9	6.4	5.0	4.4	4.3	4.1	3.3	3.9	3.3	2.8	3.1
5.5-6.0 (High)	9.0	10.3	8.3	8.0	7.2	5.4	6.8	5.8	3.7	4.0	3.1	3.4	3.6	3.1	3.4	2.9
Race/Ethnicity (2-year average): d																
White	_	_	10.2	9.3	8.2	7.5	7.2	6.5	5.8	5.5	5.1	4.7	4.2	3.7	3.5	3.7
African American	_	_	3.3	3.2	2.6	2.5	2.4	2.0	1.7	1.6	1.6	1.6	1.7	1.5	1.1	1.1
Hispanic	_	_	7.4	5.8	5.8	5.8	5.7	5.1	4.1	4.4	4.6	3.6	2.8	2.8	3.2	2.8

TABLE 82 (cont.)

SEDATIVES (BARBITURATES): a,b Trends in Annual Prevalence of Use by Subgroups in Grade 12

						Percer	ntage who	o used in	last 12 r	months					
	<u>1991</u>	1992	1993	1994	1995	<u>1996</u>	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	3.4	2.8	3.4	4.1	4.7	4.9	5.1	5.5	5.8	6.2	5.7	6.7	6.0	6.5	7.2
Gender:															
Male	3.4	2.9	3.4	4.3	5.1	5.2	5.3	6.3	6.3	6.9	6.3	7.4	6.7	7.0	7.7
Female	3.2	2.6	3.3	3.8	4.2	4.4	4.8	4.8	5.3	5.4	5.1	5.9	5.4	6.0	6.6
College Plans:															
None or under 4 years	4.3	3.9	3.8	5.4	5.9	6.7	6.6	6.9	7.0	7.0	7.1	9.8	9.6	9.3	10.7
Complete 4 years	2.9	2.3	3.2	3.7	4.4	4.3	4.6	5.1	5.5	6.0	5.4	6.0	5.1	5.6	6.3
Region:															
Northeast	2.8	2.7	3.5	4.0	4.1	5.6	5.7	5.5	4.7	5.6	5.3	5.9	4.8	5.4	5.7
Midwest	3.5	2.7	3.5	4.1	4.5	4.9	4.4	4.8	6.0	5.2	5.6	6.4	5.1	5.9	7.5
South	3.6	3.0	3.6	4.8	5.3	5.4	5.8	6.8	6.8	7.5	6.1	8.4	7.1	7.8	8.5
West	3.3	2.5	2.7	2.8	4.3	3.3	4.2	4.2	4.9	5.7	5.6	5.1	6.5	6.3	5.9
Population Density:															
Large MSA	2.4	2.4	2.6	3.6	4.1	3.6	4.2	4.6	3.7	5.1	5.9	6.5	4.2	5.5	6.1
Other MSA	3.9	2.6	3.1	4.3	4.9	5.4	5.0	5.6	6.2	6.6	6.1	6.7	6.6	7.1	7.5
Non-MSA	3.3	3.4	4.3	4.1	5.0	5.4	6.4	6.8	7.4	6.8	4.9	7.0	7.4	6.6	7.8
Parental Education: c															
1.0-2.0 (Low)	3.6	3.9	3.8	4.5	4.9	4.8	4.3	6.4	7.5	5.2	6.3	5.1	6.7	6.6	6.2
2.5–3.0	3.7	2.4	3.6	4.5	5.2	4.9	4.9	6.3	6.2	7.1	5.3	7.1	6.5	7.0	8.1
3.5–4.0	3.0	2.8	2.8	4.0	4.6	4.9	6.0	5.6	6.4	5.8	6.1	7.7	7.2	8.0	7.7
4.5–5.0	3.3	2.9	3.4	4.0	4.4	5.0	5.1	5.0	5.0	6.7	5.9	6.3	4.7	5.1	7.0
5.5–6.0 (High)	3.6	2.4	3.8	3.6	4.1	4.6	4.6	5.0	5.1	5.5	5.8	6.6	4.3	5.5	6.3
Race/Ethnicity (2-year average): d															
White	3.8	3.5	3.6	4.3	4.9	5.4	5.9	6.5	6.7	6.9	7.0	7.5	7.6	7.4	7.9
African American	1.2	1.1	1.0	1.5	1.6	1.1	1.0	1.4	1.4	1.3	1.5	1.4	1.7	2.4	2.6
Hispanic	2.4	2.2	1.9	2.6	3.5	4.0	3.7	3.3	4.0	5.1	4.7	4.5	4.1	4.7	5.8

TABLE 82 (cont.) **SEDATIVES (BARBITURATES):** <sup>a,b</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

					Percer	itage who	o used in	last 12 r	nonths					
Annua vina da vua indea d N	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013 <sup>e</sup>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	0.0
Total	6.6	6.2	5.8	5.2	4.8	4.3	4.5	4.8	4.3	3.6	3.0	2.9	2.7	-0.3
Gender:	0.4	0.0	<b>5.0</b>	<b>5</b> 0	4.0	4.0	4.0	4.7		0.4	0.7	0.0	0.4	0.0
Male	6.4	6.3	5.9	5.6	4.8	4.2	4.2	4.7	4.4	3.1	2.7	2.9	2.4	-0.6
Female	6.7	6.2	5.7	4.9	4.6	4.4	4.7	4.9	4.2	4.1	3.2	2.9	2.5	-0.4
College Plans:	40.0			7.0	o =				- 0				0.5	
None or under 4 years	10.0	8.2	8.9	7.6	6.7	7.5	5.1	6.1	5.9	4.1	3.6	3.9	3.5	-0.4
Complete 4 years	5.7	5.7	5.2	4.7	4.3	3.7	4.3	4.4	3.9	3.5	2.9	2.8	2.4	-0.4
Region:														
Northeast	5.7	5.5	5.1	4.3	4.2	3.4	4.1	3.9	3.0	3.3	2.2	1.6	2.5	+1.0
Midwest	6.2	5.9	5.7	6.5	5.3	4.7	4.4	4.7	4.1	2.9	3.7	2.7	2.9	+0.2
South	7.5	7.2	6.8	5.6	5.3	4.2	4.4	5.5	5.1	3.8	2.9	3.2	2.5	-0.7
West	6.2	5.4	5.0	4.0	4.2	4.7	5.0	4.5	4.1	4.3	3.2	3.7	2.7	-0.9
Population Density:														
Large MSA	6.6	5.7	4.3	4.5	4.1	3.4	4.3	4.7	3.6	3.3	2.5	2.3	2.3	+0.1
Other MSA	6.6	6.3	6.2	5.4	5.0	4.6	4.8	5.2	5.0	4.0	3.4	3.4	2.6	-0.8
Non-MSA	6.6	6.9	6.7	5.9	5.5	4.9	4.0	3.9	3.5	3.3	3.0	3.1	3.2	+0.2
Parental Education: c														
1.0-2.0 (Low)	7.3	6.3	6.0	4.8	4.3	4.8	5.1	4.9	4.3	3.3	3.4	3.4	2.8	-0.6
2.5–3.0	6.5	5.7	6.3	5.7	5.5	4.6	5.0	5.0	4.8	3.2	3.0	3.2	2.5	-0.6
3.5-4.0	7.3	6.5	6.2	5.5	5.2	4.6	4.8	5.1	4.0	4.6	3.4	3.3	2.9	-0.5
4.5–5.0	6.2	7.0	5.0	5.6	4.5	4.2	4.3	4.6	4.6	3.1	2.7	2.2	2.8	+0.5
5.5-6.0 (High)	6.0	5.3	5.4	3.5	3.6	3.0	3.7	4.6	3.7	4.1	3.3	2.8	2.1	-0.7
Race/Ethnicity (2-year average): d														
White	7.9	7.5	7.3	6.6	5.8	5.2	4.9	5.1	5.0	4.5	3.8	3.2	2.8	-0.3
African American	2.5	2.5	2.2	2.0	2.7	2.5	2.1	2.5	3.1	2.6	2.0	1.7	1.5	-0.2
Hispanic	5.8	5.2	4.3	4.0	3.8	3.5	3.7	3.8	3.8	3.3	2.7	3.1	2.9	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

bln 2004 the barbiturate question text was changed on half of the questionnaire forms. Barbiturates was changed to Sedatives, including barbiturates, and "have you taken barbiturates..." was changed to "have you taken sedatives..." In the list of examples downs, downers, goofballs, yellow, reds, blues, rainbows were changed to downs, or downers, and include Phenobarbital, Tuinal, Nembutal, and Seconal. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

e In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording changes.

TABLE 83

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

#### Percentage who used in last 12 months

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>b</sup>	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	1.8	2.0	2.1	2.4	2.7	3.3	2.9	2.6	2.5	2.6‡	2.8	2.6	2.7	2.5	2.8
Gender:															
Male	1.5	1.6	1.8	1.9	2.0	2.3	2.6	2.3	2.1	2.1‡	2.5	2.2	2.2	1.9	2.1
Female	2.1	2.3	2.4	2.8	3.3	4.0	3.2	3.0	2.9	3.1‡	2.9	2.8	3.0	3.2	3.4
College Plans:															
None or under 4 years	3.9	4.9	3.6	5.1	5.9	6.4	5.8	6.4	5.8	6.8‡	5.8	6.5	6.3	6.2	6.9
Complete 4 years	1.5	1.5	1.9	2.0	2.3	2.8	2.6	2.2	2.0	2.2‡	2.5	2.1	2.3	2.1	2.4
Region:															
Northeast	1.0	1.6	1.7	2.5	2.3	2.7	2.5	2.0	2.3	2.2‡	2.0	1.8	1.9	1.7	1.6
Midwest	1.4	1.9	1.3	1.7	2.6	3.5	2.4	2.6	2.6	2.2‡	2.2	2.4	2.2	2.1	2.8
South	2.6	2.5	2.4	2.6	3.0	3.7	3.3	3.2	2.8	3.2‡	3.4	3.4	3.5	3.4	3.7
West	1.8	1.6	3.0	2.7	2.4	2.9	3.0	2.3	1.9	2.5‡	3.2	1.9	2.6	2.2	2.2
Population Density:															
Large MSA	1.8	2.1	1.7	2.5	1.8	3.2	2.1	1.9	1.8	2.5‡	2.8	2.0	1.8	1.8	2.0
Other MSA	1.7	1.8	2.5	2.6	3.2	3.4	3.2	2.6	2.4	2.7‡	3.1	2.7	2.9	3.1	3.1
Non-MSA	2.2	2.2	1.6	1.9	2.6	3.1	3.2	3.6	3.4	2.7‡	2.3	2.9	3.4	2.4	3.4
Parental Education: c															
1.0-2.0 (Low)	3.6	3.8	2.5	3.2	3.9	4.9	4.3	5.5	5.0	5.6‡	3.7	5.0	3.9	4.7	5.0
2.5-3.0	1.6	2.1	2.5	2.6	2.7	3.5	3.1	2.8	3.3	3.6‡	3.7	3.6	3.5	2.8	4.3
3.5-4.0	2.0	2.2	2.1	2.6	3.2	3.9	3.2	2.7	2.1	2.6‡	2.7	2.2	2.8	3.0	3.3
4.5–5.0	1.4	0.9	1.8	2.0	2.2	2.8	2.4	2.4	1.7	1.4‡	2.7	2.0	2.1	2.0	1.3
5.5-6.0 (High)	1.8	1.9	1.7	2.1	1.6	2.7	2.7	2.1	1.9	2.2‡	2.1	1.6	1.6	1.7	2.0
Race/Ethnicity (2-year average): d															
White	_	2.0	2.0	2.2	2.7	3.2	3.4	3.1	2.9	3.0	3.0‡	3.0 <sup>e</sup>	2.8	2.8	2.9
African American	_	0.9	1.1	1.2	1.2	1.3	1.2	0.9	0.7	0.5	0.5‡	0.6 <sup>e</sup>	1.0	1.2	1.0
Hispanic	_	2.7	3.1	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.6‡	3.8 <sup>e</sup>	3.4	3.4	3.5

TABLE 83 (cont.)

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

Percenta	ane who	lised in	last 12	months

														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600		16,900	15,300	14.000	
Total	2.6	2.4	2.4	2.6	2.8	2.0	1.8	1.8	1.7	1.7	1.7	2.0	2.0	+0.1
Gender:														
Male	2.2	1.6	1.7	2.3	2.2	1.6	1.3	1.3	1.3	1.2	1.4	1.5	2.0	+0.4
Female	2.9	3.1	3.2	3.0	3.3	2.4	2.3	2.4	2.1	2.2	1.9	2.4	2.1	-0.3
College Plans:														
None or under 4 years	6.0	6.8	5.9	7.0	5.5	4.8	4.1	5.3	4.8	3.1	3.3	4.2	4.0	-0.2
Complete 4 years	2.3	2.0	2.2	2.3	2.6	1.8	1.6	1.6	1.5	1.6	1.5	1.8	1.8	0.0
Region:														
Northeast	1.3	1.4	1.6	1.2	1.6	1.1	1.3	1.2	1.5	1.6	1.1	0.9	0.9	0.0
Midwest	2.4	2.8	2.5	2.4	2.6	1.8	1.0	1.5	1.5	1.8	1.2	1.6	1.3	-0.3
South	3.6	2.9	3.3	3.6	3.6	2.5	2.7	2.3	2.0	1.9	2.0	2.3	2.5	+0.2
West	2.1	1.9	1.8	2.2	2.4	2.2	1.3	1.9	1.8	1.4	2.1	2.7	2.9	+0.2
Population Density:														
Large MSA	1.9	1.9	1.8	2.0	2.2	1.7	1.5	1.6	1.8	2.2	1.5	2.0	2.2	+0.2
Other MSA	2.6	2.8	2.8	3.0	3.1	2.4	2.2	1.9	1.8	1.7	1.7	2.1	2.2	+0.1
Non-MSA	3.5	2.4	2.6	2.5	2.8	1.6	1.5	1.9	1.6	1.0	1.8	1.7	1.5	-0.2
Parental Education: c														
1.0-2.0 (Low)	5.1	5.2	4.7	5.9	4.8	3.4	3.2	3.6	3.0	3.1	2.5	4.4	3.2	-1.2
2.5–3.0	3.2	3.3	3.0	3.4	3.4	2.8	2.4	2.4	2.3	1.7	1.7	2.4	2.6	+0.2
3.5-4.0	3.1	2.9	2.5	2.8	3.2	2.5	1.9	2.2	1.9	1.8	2.0	1.7	2.4	+0.7
4.5–5.0	1.7	1.3	2.1	1.7	2.0	1.3	1.1	1.5	1.5	1.5	1.7	1.5	1.9	+0.4
5.5-6.0 (High)	1.8	1.0	1.7	1.4	1.7	1.3	1.5	0.9	1.1	1.3	1.2	1.5	1.1	-0.4
Race/Ethnicity (2-year average): d														
White	3.0	2.7	2.6	2.8	2.9	2.6	2.0	1.7	1.7	1.7	1.4	1.5	1.6	+0.2
African American	0.8	0.9	0.9	1.0	1.2	1.3	1.2	1.1	1.1	1.2	1.5	1.4	1.0	-0.4
Hispanic	3.0	2.9	2.9	2.9	3.3	2.9	2.4	2.4	2.2	2.0	2.1	2.3	2.6	+0.3

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 84

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

						Percer	tage wh	o used ir	n last 12	months					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u> <sup>b</sup>	2002	2003	2004	<u>2005</u>
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	3.2	3.5	3.3	3.3	4.0	4.6	4.9	5.1	5.4	5.6‡	7.3	6.3	5.3	5.1	4.8
Gender:															
Male	2.5	2.7	3.2	3.0	4.0	4.3	4.7	4.7	5.2	5.8‡	7.9	5.7	4.7	4.7	4.3
Female	3.8	4.3	3.2	3.6	4.0	4.9	5.2	5.4	5.4	5.5‡	6.8	6.9	5.8	5.5	5.3
College Plans:															
None or under 4 years	5.0	6.0	5.8	6.0	7.4	9.4	8.6	8.3	8.6	10.0‡	13.5	11.6	9.2	9.6	9.6
Complete 4 years	2.8	3.1	2.7	2.8	3.4	3.8	4.3	4.5	4.8	4.9‡	6.4	5.5	4.7	4.5	4.2
Region:															
Northeast	2.7	2.8	3.4	2.8	2.6	3.9	3.6	5.7	5.5	3.9‡	6.2	4.6	4.3	5.0	5.0
Midwest	2.4	3.0	2.5	2.6	3.2	4.4	3.7	3.4	4.6	5.4‡	5.6	5.5	4.5	3.5	3.3
South	4.2	4.5	3.9	4.2	5.1	5.7	7.3	6.6	6.0	6.9‡	9.6	8.1	7.5	7.3	6.6
West	2.9	3.2	3.2	3.6	4.3	3.6	3.7	4.1	4.9	5.4‡	6.7	5.8	4.1	4.1	3.8
Population Density:															
Large MSA	3.2	3.3	2.7	2.6	3.2	4.2	3.9	4.1	5.0	5.5‡	5.8	5.1	3.9	3.2	3.5
Other MSA	3.0	3.8	3.3	3.9	4.1	4.6	4.4	5.2	5.5	5.4‡	7.0	6.8	5.8	5.7	5.4
Non-MSA	3.5	3.3	3.6	3.0	4.7	5.2	7.0	6.0	5.6	6.1‡	9.9	6.7	6.4	6.4	5.3
Parental Education: c															
1.0-2.0 (Low)	3.3	5.3	4.8	4.2	5.0	5.9	4.7	6.5	5.0	8.2‡	7.6	7.1	7.5	5.8	5.2
2.5-3.0	3.6	3.5	3.1	3.3	4.5	5.2	5.3	6.3	5.9	6.2‡	7.9	7.5	7.3	5.6	5.7
3.5-4.0	3.2	3.4	3.5	3.4	4.3	5.0	5.5	4.9	5.2	5.6‡	8.1	6.7	5.7	5.7	5.4
4.5–5.0	2.5	3.9	2.9	2.9	3.5	4.1	4.2	4.5	5.7	5.2‡	6.7	5.8	4.1	4.6	4.0
5.5-6.0 (High)	3.5	2.3	3.1	3.4	3.2	3.6	4.4	4.0	5.3	4.7‡	6.9	4.6	3.4	4.1	4.0
Race/Ethnicity (2-year average): d															
White	_	4.0	3.8	3.6	4.1	4.9	5.6	6.0	6.1	6.4	7.0‡	7.6 <sup>e</sup>	7.4	6.5	6.0
African American	_	0.9	0.9	0.9	0.8	0.7	0.9	1.0	1.2	1.1	1.5‡	1.5 <sup>e</sup>	1.3	1.3	1.3
Hispanic	_	2.9	3.3	3.1	3.1	3.4	3.5	3.5	3.7	4.0	4.0‡	4.3 <sup>e</sup>	4.4	4.5	4.3

TABLE 84 (cont.)

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	5.2	5.3	4.6	5.0	5.1	4.5	4.3	3.7	3.9	3.9	4.1	4.1	3.9	-0.2
Gender:														
Male	5.0	4.6	4.1	4.4	4.5	4.7	4.0	3.8	3.2	3.2	3.5	3.8	3.9	+0.1
Female	5.3	6.0	5.0	5.7	5.5	4.3	4.5	3.6	4.6	4.5	4.5	4.2	3.7	-0.5
College Plans:														
None or under 4 years	10.2	9.9	9.6	11.4	10.6	9.9	10.7	6.4	7.9	8.5	8.7	7.2	7.4	+0.1
Complete 4 years	4.5	4.7	3.9	4.4	4.4	3.9	3.6	3.4	3.5	3.4	3.6	3.7	3.4	-0.4
Region:														
Northeast	3.8	4.1	2.8	3.0	4.0	3.5	3.0	2.9	3.0	3.4	2.3	2.4	2.1	-0.2
Midwest	4.2	5.3	4.7	5.1	5.1	4.4	4.3	3.9	4.7	2.9	3.9	4.3	3.9	-0.4
South	6.9	6.5	6.2	6.2	6.1	5.4	5.3	4.3	4.3	4.8	4.6	3.8	4.6	+0.8
West	5.3	4.7	3.7	5.2	4.3	4.2	3.9	3.3	3.2	3.8	4.8	5.5	4.0	-1.5
Population Density:														
Large MSA	4.4	4.1	3.3	3.9	4.6	4.0	3.7	3.0	3.6	3.8	4.5	4.5	3.8	-0.7
Other MSA	5.3	5.8	5.2	5.8	5.2	4.7	4.2	4.1	3.9	3.9	3.7	4.1	3.9	-0.2
Non-MSA	6.3	6.0	5.1	5.1	5.5	5.1	5.2	3.7	4.5	3.8	4.5	3.4	3.8	+0.5
Parental Education: c														
1.0-2.0 (Low)	6.6	5.5	5.4	7.4	6.5	4.8	5.5	5.4	5.4	4.8	4.9	4.6	5.3	+0.7
2.5–3.0	6.2	6.4	5.9	5.9	6.7	5.0	5.4	4.6	4.0	4.8	5.4	4.8	3.7	-1.1
3.5-4.0	5.6	5.7	5.2	5.9	5.8	4.8	5.0	4.4	4.9	5.0	4.2	4.5	4.7	+0.2
4.5–5.0	4.3	4.9	3.5	4.1	4.0	4.4	3.6	2.4	3.3	3.4	3.7	3.7	3.2	-0.5
5.5-6.0 (High)	4.3	3.9	3.6	3.6	3.3	4.1	3.2	3.2	2.8	2.5	3.1	3.8	3.4	-0.4
Race/Ethnicity (2-year average): d														
White	6.0	6.2	6.1	5.7	5.8	5.6	5.1	4.4	4.0	4.1	4.0	4.1	4.0	-0.1
African American	1.6	1.3	1.0	1.3	1.8	2.1	1.8	1.7	2.1	2.5	2.7	2.2	1.5	-0.7 s
Hispanic	3.8	3.3	3.5	4.5	4.9	4.1	4.0	4.2	3.8	3.8	4.4	5.2	5.3	+0.1

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

bln 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>&</sup>lt;sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 85

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Pe	rcentage	who us	ed in las	t 12 mon	iths					
Approximate weighted N =	<u>1975</u> 9,400	<u>1976</u> 15,400	<u>1977</u> 17,100	<u>1978</u> 17,800	<u>1979</u> 15,500	<u>1980</u> 15,900	<u>1981</u> 17,500	1982 17,700	1983 16,300	<u>1984</u> 15,900	1985 16,000	<u>1986</u> 15,200	<u>1987</u> 16,300	1988 16,300	1989 16,700	<u>1990</u> 15,200
Total	10.6	10.3	10.8	9.9	9.6	8.7	8.0	7.0	6.9	6.1	6.1	5.8	5.5	4.8	3.8	3.5
Gender:																
Male	10.0	9.4	10.2	9.7	9.9	9.0	8.0	6.9	7.0	6.3	6.4	5.9	5.2	4.7	4.0	3.5
Female	11.1	11.0	11.4	10.1	9.3	8.5	7.7	7.1	6.7	5.8	5.7	5.8	5.8	4.8	3.5	3.5
College Plans:																
None or under 4 years	_	11.5	12.3	11.1	11.0	10.7	9.4	8.0	8.0	7.4	6.8	7.2	6.7	5.1	4.8	4.3
Complete 4 years	_	8.9	9.0	8.6	8.1	7.2	6.9	6.3	5.8	5.2	5.5	5.1	4.9	4.6	3.3	3.2
Region:																
Northeast	9.2	9.7	10.4	10.9	11.5	8.6	8.3	7.8	6.8	6.8	7.1	6.4	6.9	4.5	3.7	2.9
Midwest	10.6	10.1	11.0	8.8	7.5	8.2	7.8	6.2	6.8	5.6	6.0	5.5	4.5	3.7	3.1	2.9
South	11.3	11.7	11.4	10.5	10.4	9.5	7.8	7.4	7.4	6.9	5.9	6.3	5.7	6.0	4.4	4.3
West	11.7	8.5	9.6	8.9	9.4	8.6	8.0	6.4	6.2	4.9	5.3	4.8	5.2	4.4	3.4	3.9
Population Density:																
Large MSA	11.2	9.6	9.6	10.3	9.9	8.7	8.3	7.0	7.0	5.4	5.8	5.3	5.8	4.7	3.1	3.6
Other MSA	11.0	11.3	11.4	10.1	10.2	9.3	8.1	7.2	7.2	6.1	6.0	5.7	5.6	5.0	3.5	3.7
Non-MSA	9.9	9.5	11.0	9.2	8.7	8.0	7.5	6.8	6.5	6.8	6.5	6.4	5.2	4.5	4.9	3.3
Parental Education: b																
1.0-2.0 (Low)	_	11.2	10.1	9.4	9.4	9.1	7.8	7.1	6.1	6.0	6.5	5.3	6.7	5.7	3.9	3.6
2.5–3.0	_	9.8	10.3	11.5	10.1	8.8	9.1	8.0	7.3	7.2	6.5	6.2	5.8	5.4	4.6	3.9
3.5–4.0	_	9.8	11.2	11.1	9.5	10.4	8.9	8.3	6.7	6.9	5.8	6.4	6.5	5.3	4.5	3.4
4.5–5.0	_	11.3	11.7	11.4	10.5	10.0	8.1	7.4	7.6	6.6	5.8	6.3	4.7	5.9	5.5	3.8
5.5-6.0 (High)	_	9.3	12.0	10.1	11.0	11.4	10.3	9.1	7.6	7.1	6.3	5.5	5.4	5.4	5.6	4.9
Race/Ethnicity (2-year average): c																
White	_	_	11.4	11.1	10.5	9.9	9.1	8.3	7.8	7.3	6.8	6.6	6.3	5.9	5.0	4.2
African American	_	_	4.3	4.2	3.6	3.1	3.0	2.5	2.3	2.1	1.7	1.7	2.0	2.0	1.2	0.7
Hispanic	_	_	8.4	8.2	7.4	6.4	5.7	5.8	5.1	5.3	5.0	4.4	3.7	2.5	1.6	1.9

TABLE 85 (cont.)

TRANQUILIZERS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

						Percen	tage who	o used ir	last 12	months					
Approximate weighted N =	1991 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	<u>1996</u> 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 <sup>d</sup> 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	3.6	2.8	3.5	3.7	4.4	4.6	4.7	5.5	5.8	5.7‡	6.9	7.7	6.7	7.3	6.8
Gender:															
Male	3.5	2.7	3.5	4.0	4.7	5.0	5.4	6.3	6.9	6.4‡	7.9	8.4	6.9	8.0	7.2
Female	3.6	3.0	3.3	3.5	4.1	4.0	3.9	4.7	4.8	4.9‡	5.8	6.9	6.3	6.5	6.2
College Plans:															
None or under 4 years	4.2	3.9	3.9	4.5	5.6	5.6	6.2	6.8	6.4	6.7‡	7.6	9.9	9.6	9.1	10.3
Complete 4 years	3.4	2.5	3.3	3.5	4.1	4.2	4.0	5.1	5.6	5.2‡	6.7	7.1	6.0	6.8	5.9
Region:															
Northeast	3.0	3.0	3.7	3.5	3.9	4.8	5.3	4.9	5.6	5.2‡	5.7	6.8	5.4	6.5	5.7
Midwest	3.0	2.3	2.8	3.1	4.0	4.4	3.5	3.7	5.1	4.7‡	8.1	6.5	5.5	6.2	7.0
South	4.0	3.5	4.2	4.8	5.0	5.3	5.4	7.5	7.6	6.7‡	7.4	10.4	8.5	9.0	8.3
West	4.4	2.3	3.0	2.8	4.3	3.0	4.3	4.4	3.9	5.6‡	5.5	5.8	6.6	7.0	4.9
Population Density:															
Large MSA	2.5	2.9	2.9	3.9	4.0	3.7	4.2	4.8	4.0	4.7‡	7.9	7.8	4.7	5.5	5.5
Other MSA	4.1	2.7	3.6	3.7	4.5	4.9	4.8	5.7	6.6	6.2‡	6.4	8.2	7.8	8.5	7.4
Non-MSA	3.7	3.1	3.7	3.5	4.8	4.7	5.1	5.9	6.5	6.0‡	6.7	6.8	7.4	7.3	7.1
Parental Education: b															
1.0-2.0 (Low)	4.0	3.9	3.3	4.2	3.9	4.2	3.9	6.4	5.2	6.4‡	5.4	5.2	7.1	5.0	4.3
2.5-3.0	3.6	2.8	3.3	3.5	4.7	4.0	4.3	5.2	6.2	5.3‡	6.7	7.9	6.5	7.9	7.7
3.5-4.0	3.1	2.7	3.5	3.6	4.3	4.7	4.6	6.0	6.4	5.6‡	7.7	8.4	7.6	9.0	7.3
4.5–5.0	3.9	3.0	3.4	3.7	4.5	4.6	5.4	4.9	5.4	5.9‡	7.4	7.9	5.9	7.1	6.8
5.5-6.0 (High)	4.0	2.2	4.2	4.2	4.1	5.3	5.1	5.5	5.6	5.8‡	6.0	7.9	6.2	5.4	5.9
Race/Ethnicity (2-year average): c															
White	4.1	3.7	3.7	4.2	4.6	5.1	5.5	6.2	6.8	6.9	7.7‡	9.2 <sup>f</sup>	8.7	8.4	8.6
African American	0.9	1.3	1.0	1.1	1.2	0.9	8.0	1.0	1.0	0.7	0.6‡	1.1 <sup>f</sup>	1.3	1.7	1.9
Hispanic	2.7	2.4	2.0	2.4	3.5	4.3	3.8	3.3	3.5	4.3	3.9‡	4.1 <sup>f</sup>	4.5	4.5	4.3

TABLE 85 (cont.) TRANQUILIZERS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

•														2017-2018
	2006	2007 <sup>e</sup>	2008	2009	2010	<u>2011</u>	2012	2013	2014	2015	<u>2016</u>	2017	2018	<u>change</u>
Approximate weighted N =	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	

Percentage who used in last 12 months

Approximate weighted N =	2006 14 200	2007 <sup>e</sup> 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12.400	2015 12,900	2016 11.800	2017 12,600	2018 13,300	<u>change</u>
Total	6.6	6.2	6.2	6.3	5.6	5.6	5.3	4.6	4.7	4.7	4.9	4.7	3.9	-0.8 s
Gender:	0.0	0.2	0.2	0.3	5.0	5.0	5.5	4.0	4.7	4.7	4.9	4.7	3.9	-0.0 \$
Male	7.1	6.9	6.8	6.8	5.9	5.4	5.1	4.6	4.9	4.6	4.8	5.2	4.2	-1.0
Female	6.1	5.4	5.7	5.7	5.9	5.6	5.5	4.4	4.9	4.6	4.9	4.0	3.1	-0.9 s
	0.1	5.4	5.7	5.7	5.2	5.6	5.5	4.4	4.4	4.0	4.9	4.0	3.1	-0.9 8
College Plans:	0.5	0.4	0.0	0.7	0.0	9.1	0.7	6.0			<b>.</b>	0.0	E 4	0.0
None or under 4 years	8.5	9.1	9.3	8.7	8.6		6.7		5.5	5.5	5.2	6.2	5.4	-0.8
Complete 4 years	6.0	5.5	5.5	5.7	4.9	4.9	4.9	4.2	4.4	4.5	4.6	4.2	3.2	-1.0 ss
Region:														
Northeast	7.2	5.9	5.3	6.7	5.2	4.8	4.6	4.2	3.3	4.1	3.7	3.6	3.4	-0.2
Midwest	5.8	6.4	5.2	7.0	5.7	6.1	5.3	4.7	4.4	4.5	4.9	4.4	4.3	0.0
South	7.6	7.0	7.8	6.9	6.4	5.5	5.3	5.0	5.0	4.6	5.1	5.4	4.0	-1.4 s
West	5.3	4.7	5.5	4.1	4.3	5.7	6.0	4.4	5.8	5.6	5.3	4.6	3.5	-1.1
Population Density:														
Large MSA	6.5	5.9	5.2	5.5	4.9	4.7	5.3	4.5	3.7	4.5	4.8	3.9	3.1	-0.8
Other MSA	6.6	6.4	6.6	6.7	5.8	5.8	5.6	5.2	5.6	5.3	5.1	5.5	4.2	-1.3 s
Non-MSA	6.9	6.2	6.5	6.3	6.0	6.5	4.9	3.6	4.0	3.6	4.6	4.2	4.5	+0.3
Parental Education: b														
1.0-2.0 (Low)	5.7	6.0	5.9	5.1	5.0	5.4	5.3	4.3	4.4	4.6	4.9	4.3	3.2	-1.0
2.5-3.0	6.9	6.5	5.5	7.0	6.4	5.5	5.9	4.5	5.1	4.9	4.2	4.9	4.4	-0.5
3.5-4.0	6.9	6.4	7.4	6.2	6.1	6.7	5.7	5.8	4.7	5.5	5.3	5.5	4.2	-1.3
4.5–5.0	6.6	6.3	5.7	6.5	5.1	5.2	4.9	4.0	4.8	4.5	5.0	4.0	3.3	-0.7
5.5-6.0 (High)	6.4	5.5	6.0	5.9	4.2	4.6	4.6	4.0	4.4	4.3	5.0	4.9	3.6	-1.3
Race/Ethnicity (2-year average): c														
White	8.2	7.9	7.9	8.0	7.3	6.8	6.7	5.9	5.1	5.0	5.1	5.1	4.7	-0.5
African American	1.6	1.3	1.0	1.2	2.2	2.3	1.6	1.7	2.5	2.8	2.9	2.9	2.7	-0.2
Hispanic	4.3	4.5	4.2	4.0	3.9	3.9	3.9	3.8	4.2	4.6	4.7	4.7	3.7	-1.0 s

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

dln 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated.

eln 2007, for the list of tranquilizers, Equanil and meprobamate were replaced with Soma while Atarax, Tranxene, and Vistaril were replaced with Ativan and Klonopin. Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 86
ANY PRESCRIPTION DRUG <sup>a</sup> WITHOUT MEDICAL SUPERVISION:

## Trends in **Annual Prevalence of Use by Subgroups in Grade 12**

															2017– 2018
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approx. weighted N =	14.700	14.200	14,500	14.000	13.700	13.700	13.700	13.600	12.600	12,400	12,900	11.800	12.600	13,300	change
Total	17.1	16.8	15.8	15.4	14.4	15.0	15.2	14.8‡	15.9	13.9	12.9	12.0	10.9	9.9	-1.1
Gender								•							
Male	18.2	17.0	16.4	16.3	16.1	16.1	15.9	15.5‡	16.5	14.2	12.9	12.3	12.0	10.7	-1.3
Female	15.7	16.3	14.8	14.4	13.5	13.7	14.0	13.7‡	14.6	13.0	12.6	11.0	9.6	8.1	-1.5 s
College Plans															
None or under 4 years	22.2	22.3	21.7	20.9	18.6	20.0	22.3	16.7‡	21.1	16.4	14.8	12.3	12.9	12.0	-1.0
Complete 4 years	15.8	15.2	14.3	14.1	13.9	13.8	13.7	14.0‡	14.7	13.0	12.3	11.5	10.3	8.8	-1.5 s
Region															
Northeast	15.5	17.4	15.8	15.2	14.7	15.1	13.3	12.4‡	14.6	11.7	11.2	9.7	9.2	9.1	-0.1
Midwest	18.9	16.1	16.5	15.0	17.3	15.0	15.9	15.6‡	17.0	14.3	13.1	13.5	10.1	9.9	-0.2
South	17.9	17.4	16.3	16.1	14.3	15.6	14.3	13.5‡	16.1	15.1	13.0	12.0	11.7	10.0	-1.7
West	15.2	16.2	14.1	15.0	12.8	14.0	17.2	17.0‡	15.5	13.3	13.9	11.9	11.7	10.2	-1.6
Population Density															
Large MSA	15.5	16.9	15.0	13.3	13.6	14.9	14.1	15.8‡	15.9	12.3	12.2	12.0	9.6	8.5	-1.1
Other MSA	18.0	16.5	15.7	15.7	15.3	15.5	15.9	14.7‡	16.8	15.9	13.5	11.9	11.8	10.5	-1.3
Non-MSA	17.4	17.5	17.1	17.3	15.4	14.1	15.0	13.2‡	13.5	11.2	12.7	12.0	11.3	10.9	-0.4
Parental Education <sup>b</sup>															
1.0-2.0 (Low)	11.8	15.7	13.7	13.2	11.5	11.9	13.2	13.3‡	13.6	12.1	12.5	10.3	8.6	8.6	+0.0
2.5–3.0	18.1	17.2	16.4	15.3	15.6	15.6	15.1	16.1‡	16.9	14.7	12.3	10.6	11.7	9.8	-1.9
3.5-4.0	18.9	18.2	16.2	16.3	15.5	16.3	16.1	15.5‡	16.3	13.7	14.0	13.1	11.3	10.0	-1.3
4.5–5.0	17.4	16.6	15.9	15.2	15.7	14.6	14.6	14.6‡	16.6	13.9	12.7	12.4	10.7	10.1	-0.6
5.5-6.0 (High)	15.0	15.5	14.8	15.1	13.5	14.1	15.5	13.0‡	15.2	14.8	14.0	12.7	12.0	10.1	-1.9
Race/Ethnicity (2-year average) c															
White	_	19.8	19.3	18.9	18.2	17.8	17.8	17.5	17.2‡	15.5	14.4	13.5	12.5	11.4	-1.0 s
African American	_	6.1	5.8	5.7	5.7	7.3	7.5	6.5	10.1‡	10.2	9.3	8.7	7.8	6.4	-1.4 s
Hispanic	_	12.8	11.9	10.3	10.1	9.9	10.3	10.9	11.9‡	12.4	11.1	10.5	10.1	8.5	-1.6 ss

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. " — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See

Table D-S3 for the number of subgroup cases. See appendix B for definition of variables in table. '‡' indicates that the question changed the following year.

<sup>a</sup>The use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers ... without a doctor telling you to use them. In 2013 the question wording for amphetamines was changed in three of the 12th grade questionnaires. 2013 data are based on the three changed forms only. N is three sixths of N indicated. Data for any prescription drug use are affected by these changes and have been handled in a parallel manner.

<sup>b</sup>Parental education is an average score of mother's education and father's education reported on the following scale: (1) Completed grade school or less, (2) Some high school, (3) Completed high school, (4) Some college, (5) Completed college, (6) Graduate or professional school after college. Missing data were allowed on one of the two variables.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 87
OVER-THE-COUNTER COUGH/COLD MEDICINES: c

# Trends in **Annual Prevalence of Use by Subgroups in Grade 8**

					Pe	ercentage	who us	ed in last	12 mont	hs					2017-
	1991-														2018
	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	4.2	4.0	3.6	3.8	3.2	2.7	3.0	2.9	2.0	1.6	2.6	2.1	2.8	+0.7
Gender:															
Male	_	3.4	3.1	2.7	3.7	2.7	2.2	1.7	2.7	1.4	1.1	2.4	2.1	2.6	+0.5
Female	_	4.7	5.0	4.3	3.8	3.7	3.1	3.9	3.0	2.5	2.1	2.9	2.1	2.9	+0.8
College Plans:															
None or under 4 years	_	11.9	8.0	7.1	12.9	5.9	5.9	6.4	8.2	5.2	4.5	7.0	6.0	4.2	-1.8
Complete 4 years	_	3.4	3.6	3.3	3.1	2.9	2.5	2.8	2.6	1.8	1.4	2.3	1.7	2.6	+0.9 s
Region:															
Northeast	_	3.4	2.4	2.5	2.7	2.2	2.3	1.6	2.6	1.8	1.2	1.8	0.9	1.4	+0.5
Midwest	_	4.5	4.0	3.8	3.8	3.0	2.4	2.6	1.9	1.6	1.6	3.2	2.4	2.4	0.0
South	_	4.2	4.8	4.1	4.5	3.2	2.7	3.9	3.1	2.2	2.0	2.5	2.1	3.2	+1.1
West	_	4.4	3.6	3.3	3.3	4.1	3.5	3.0	3.8	2.3	1.2	2.9	2.6	3.7	+1.1
Population Density:															
Large MSA	_	3.5	2.7	3.1	3.4	2.6	1.7	3.1	3.6	1.6	1.3	2.3	1.3	2.3	+1.0
Other MSA	_	4.4	4.8	3.5	3.8	3.7	3.5	3.0	2.7	2.2	1.7	2.8	2.7	2.9	+0.2
Non-MSA	_	4.6	4.2	4.3	4.3	3.0	2.7	2.8	2.3	2.2	1.8	2.8	1.8	3.5	+1.7
Parental Education: <sup>a</sup>															
1.0-2.0 (Low)	_	6.2	5.7	4.8	9.2	4.1	5.0	4.6	3.1	2.8	1.5	4.1	3.4	4.3	+0.9
2.5–3.0	_	5.1	4.5	4.4	4.6	4.0	3.7	3.3	3.9	1.0	2.7	2.9	1.9	2.8	+0.9
3.5–4.0	_	4.4	5.4	3.8	4.2	3.1	3.7	4.0	3.2	2.7	1.3	3.5	2.6	3.0	+0.4
4.5–5.0	_	3.8	3.4	3.4	3.3	2.1	1.9	1.9	3.2	1.7	1.6	1.8	1.9	3.5	+1.5
5.5-6.0 (High)	_	3.0	2.0	2.5	1.7	3.3	1.0	2.0	1.5	2.5	1.1	2.4	1.6	1.4	-0.2
Race/Ethnicity (2-year average): b															
White	_	_	4.5	4.1	3.7	3.3	2.9	2.6	2.6	2.6	1.9	2.1	2.4	2.4	0.0
African American	_	_	2.2	2.3	2.7	2.8	2.3	3.0	3.2	2.1	1.9	2.4	2.3	2.4	+0.1
Hispanic	_	_	4.4	3.8	3.6	3.9	3.2	3.8	3.9	2.8	1.5	1.9	2.3	2.4	+0.1

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .01. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Taken to get high.

TABLE 88

OVER-THE-COUNTER COUGH/COLD MEDICINES: 
Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Pe	rcentage	who use	ed in last	12 mont	hs					2017-
	1991-		0007		0000	0040	0044	0010	0040	2011	0045	0010	0047	0040	2018
Annual vine at a visit at at Al	2005	2006	2007	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	0.0
Total	_	5.3	5.4	5.3	6.0	5.1	5.5	4.7	4.3	3.7	3.3	3.0	3.6	3.3	-0.3
Gender:			4.0	4.0								o =	0.5		
Male	_	5.1	4.6	4.9	5.9	5.5	5.4	5.5	4.6	3.8	3.0	2.7	3.5	3.7	+0.2
Female	_	5.5	6.3	5.7	6.0	4.9	5.8	4.1	3.5	3.3	3.5	3.3	3.5	3.0	-0.5
College Plans:															
None or under 4 years	_	9.9	9.7	11.3	13.5	10.8	13.6	10.2	8.0	9.2	9.3	4.8	7.6	4.8	-2.8
Complete 4 years	_	4.6	4.8	4.6	5.2	4.5	4.6	4.2	3.9	3.0	2.6	2.8	3.2	3.1	-0.1
Region:															
Northeast	_	4.1	5.8	3.5	4.1	4.4	5.3	4.5	4.4	3.1	2.2	3.4	2.1	2.6	+0.5
Midwest	_	4.3	5.4	5.4	6.2	4.9	6.0	4.3	3.5	3.3	3.2	2.0	3.7	3.3	-0.5
South	_	6.3	5.9	6.6	6.9	5.0	6.2	5.7	4.2	4.4	3.4	3.7	3.5	3.4	-0.1
West	_	6.0	4.7	4.8	6.3	6.3	4.2	4.0	5.1	3.5	4.2	2.6	4.8	3.9	-0.8
Population Density:															
Large MSA	_	4.3	4.7	4.3	5.3	5.1	4.1	4.2	4.3	3.8	2.6	2.9	3.6	3.7	+0.1
Other MSA	_	5.5	5.6	6.2	6.8	4.7	6.4	4.7	4.0	3.3	3.6	3.1	3.2	3.2	0.0
Non-MSA	_	6.3	6.3	4.7	5.3	6.1	5.9	5.5	5.0	4.3	3.7	2.7	4.7	3.1	-1.5
Parental Education: a															
1.0-2.0 (Low)	_	5.1	6.4	6.8	9.7	9.3	8.0	6.2	5.4	3.5	5.1	4.4	5.4	6.7	+1.3
2.5–3.0	_	6.2	7.4	5.9	7.3	6.0	6.2	5.9	5.3	2.9	3.9	3.6	4.2	4.2	0.0
3.5–4.0	_	6.2	6.0	5.0	6.5	5.3	5.5	5.8	5.2	4.7	3.4	2.4	4.8	2.4	-2.4 s
4.5–5.0	_	4.1	4.5	5.6	4.5	3.4	5.1	3.5	3.0	2.9	2.9	2.6	3.1	2.4	-0.7
5.5-6.0 (High)	_	5.1	3.0	3.9	5.2	5.1	4.6	3.6	2.9	3.6	2.6	3.3	2.0	3.0	+1.0
Race/Ethnicity (2-year average): <sup>b</sup>															
White	_	_	6.0	6.2	6.4	5.8	5.4	5.1	4.7	4.2	3.7	3.5	3.5	3.4	-0.1
African American	_	_	3.9	3.1	2.1	2.6	3.8	2.7	2.3	3.6	3.4	2.4	2.8	2.6	-0.2
Hispanic	_		3.2	4.0	5.5	5.6	5.7	6.5	5.0	3.5	2.4	2.1	3.4	4.2	+0.8

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S2.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Taken to get high.

TABLE 89
OVER-THE-COUNTER COUGH/COLD MEDICINES: 
Trends in Annual Prevalence of Use by Subgroups in Grade 12

					Pe	ercentage	who us	ed in last	12 mont	hs					2017-
	1991-	0000	0007			0040	0044	0040	0040	2011	0045	0040	0047	0040	2018
Approximate weighted $N =$	<u>2005</u> —	2006 14.200	2007 14.500	2008 14.000	2009 13.700	2010 14.400	2011 14.100	2012 13.700	2013 12.600	2014 12.400	2015 12.900	2016 11,800	2017 12.600	2018 13,300	<u>change</u>
Approximate weighted N =	_	6.9	5.8	5.5	5.9	6.6	5.3	5.6	5.0	4.1	4.6	4.0	3.2	3.4	+0.2
Gender:	_	6.9	5.6	5.5	5.9	0.0	5.3	5.6	5.0	4.1	4.0	4.0	3.2	3.4	+0.2
Male		7.6	5.9	6.3	8.1	7.7	5.6	6.1	5.9	4.8	5.8	4.7	4.0	4.0	0.0
Female	_		5.9 5.1	6.3 4.7			5.6 4.7		5.9 4.2		3.2				
	_	5.9	5.1	4.7	4.1	5.4	4.7	4.5	4.2	3.3	3.2	3.3	2.5	2.6	+0.1
College Plans:							7.0		7.0		- 0				
None or under 4 years	_	8.9	8.3	7.6	7.1	8.6	7.3	8.4	7.3	4.3	5.6	5.7	4.7	5.9	+1.1
Complete 4 years	_	6.2	5.2	4.9	5.5	6.1	4.9	4.8	4.4	3.9	4.2	3.6	2.9	2.8	-0.1
Region:															
Northeast	_	5.9	7.8	4.4	5.1	7.4	5.6	4.9	5.1	3.8	3.8	3.9	2.7	3.4	+0.6
Midwest	_	6.6	6.8	4.4	6.7	5.9	6.1	5.8	4.6	4.3	4.2	3.7	2.9	3.7	+0.7
South	_	7.6	5.2	6.7	6.2	6.6	5.5	5.6	5.7	4.6	4.6	4.7	3.3	3.1	-0.2
West	_	6.7	4.2	5.8	4.8	6.6	4.1	5.8	4.5	3.5	5.4	3.2	3.7	3.6	-0.1
Population Density:															
Large MSA	_	7.6	5.4	4.9	5.7	6.3	5.2	5.9	5.0	2.8	4.7	3.4	2.7	2.6	0.0
Other MSA	_	6.0	5.9	5.5	6.6	6.8	5.4	5.2	4.9	4.8	4.4	4.6	3.9	3.4	-0.4
Non-MSA	_	7.5	6.1	6.4	4.4	6.2	5.4	6.0	5.4	4.3	4.7	3.6	2.8	4.7	+1.8
Parental Education: a															
1.0-2.0 (Low)	_	7.7	7.2	6.8	7.8	7.4	7.3	5.7	5.9	3.6	3.3	4.6	3.0	3.6	+0.6
2.5–3.0	_	6.2	6.7	5.0	6.1	6.2	5.7	5.5	4.3	5.6	4.8	4.1	5.1	4.0	-1.2
3.5-4.0	_	7.7	4.6	6.3	5.7	7.9	4.9	5.6	6.3	2.8	5.9	3.9	3.7	3.3	-0.4
4.5–5.0	_	6.7	6.8	4.8	5.6	5.3	4.9	6.0	4.1	4.5	4.0	3.4	2.0	2.5	+0.5
5.5-6.0 (High)	_	4.9	4.0	4.4	5.1	5.9	5.6	5.3	3.9	4.1	3.2	4.5	0.9	3.8	+3.0 ss
Race/Ethnicity (2-year average): b															
White	_	_	6.3	5.8	5.9	6.4	6.2	5.6	5.3	4.5	4.2	4.2	3.4	3.2	-0.2
African American	_	_	5.0	4.2	4.5	4.6	4.6	3.8	3.7	4.5	4.8	4.9	3.3	2.2	-1.1
Hispanic	_	_	7.9	6.0	6.0	7.1	5.4	5.4	5.8	3.8	4.2	5.0	4.2	3.3	-0.9

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Taken to get high.

TABLE 90

ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 8

				Percer	itage who	o used in	last 12 r	months			
	1991–										,
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =	_	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	_	1.0	8.0	8.0	0.5	0.5	0.7	0.3	0.5	0.6	0.7
Gender:											
Male	_	1.1	0.7	8.0	0.6	0.5	0.6	0.2	0.4	0.5	0.7
Female	_	1.0	0.9	0.9	0.2	0.6	0.7	0.2	0.4	0.7	0.7
College Plans:											
None or under 4 years	_	2.5	1.5	3.0	0.9	2.2	2.0	1.0	1.3	2.4	1.8
Complete 4 years	_	8.0	0.7	0.6	0.4	0.4	0.5	0.2	0.4	0.4	0.6
Region:											
Northeast	_	0.9	0.3	0.9	0.3	0.6	0.9	0.2	0.2	0.3	0.6
Midwest	_	0.9	0.8	8.0	0.3	0.4	1.0	0.4	0.2	8.0	0.6
South	_	1.3	1.1	0.9	0.7	0.9	0.6	0.4	0.6	0.5	0.5
West	_	1.0	0.7	0.8	0.5	*	0.4	0.1	0.7	0.7	1.1
Population Density:											
Large MSA	_	1.2	0.8	0.7	0.4	0.9	1.2	0.1	0.1	0.5	0.4
Other MSA	_	1.1	0.9	1.0	0.6	0.5	0.5	0.3	0.4	0.8	0.7
Non-MSA	_	0.8	0.7	8.0	0.3	0.2	0.4	0.5	1.0	0.3	1.0
Parental Education: a											
1.0-2.0 (Low)	_	2.0	2.1	2.2	0.2	0.9	1.3	0.9	1.8	2.4	0.6
2.5–3.0	_	1.1	1.1	8.0	0.3	8.0	0.3	0.0	0.9	0.1	1.3
3.5-4.0	_	1.2	0.7	0.9	0.6	0.2	1.2	0.2	0.1	0.2	0.4
4.5–5.0	_	0.8	0.6	0.6	0.5	0.4	0.7	0.6	0.4	0.6	0.9
5.5-6.0 (High)	_	0.8	0.5	0.9	0.7	0.9	0.2	0.2	0.0	0.1	0.5
Race/Ethnicity (2-year average): b											
White	_	_	0.9	0.8	0.7	0.5	0.6	0.5	0.4	0.4	0.5
African American	_	_	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.9	0.7
Hispanic	_	_	1.4	1.5	1.5	0.6	0.9	0.8	0.4	1.0	0.8

TABLE 90 (cont.)

ROHYPNOL: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

					Percer	ntage wh	o used in	last 12 r	nonths					
Approximate weighted N =	2006 16,500	2007 16,100	2008 15,700	<u>2009</u> 15,000	2010 15,300	<u>2011</u> 16,000	<u>2012</u> 15,100	2013 14,600	<u>2014</u> 14,600	2015 14,400	2016 16,900	2017 15,300	2018 14,000	2017-2018 <u>change</u>
Total	0.5	0.7	0.5	0.4	0.5	8.0	0.4	0.4	0.3	0.3	0.5	0.4	0.3	-0.1
Gender:														
Male	0.7	0.6	0.6	0.4	0.3	0.7	0.4	0.5	0.3	0.5	0.4	0.2	0.4	+0.2
Female	0.4	0.7	0.3	0.4	0.7	8.0	0.3	0.3	0.4	0.2	0.3	0.6	0.3	-0.4
College Plans:														
None or under 4 years	1.1	3.3	2.6	2.4	0.5	1.8	3.1	2.2	0.9	1.5	3.3	1.1	1.3	+0.2
Complete 4 years	0.5	0.4	0.3	0.2	0.5	0.7	0.2	0.3	0.3	0.2	0.2	0.3	0.1	-0.2
Region:														
Northeast	1.4	0.1	0.0	0.0	0.5	0.9	0.4	0.5	0.2	0.0	1.2	0.3	0.0	-0.3
Midwest	0.0	8.0	0.7	0.6	0.4	0.6	0.1	0.0	0.5	0.0	0.2	0.5	0.4	0.0
South	0.6	0.7	0.6	0.4	0.7	0.4	0.6	0.5	0.2	0.4	0.5	0.3	0.4	+0.1
West	0.2	8.0	0.5	0.5	0.5	1.7	0.4	0.6	0.4	0.6	0.1	0.4	0.3	-0.2
Population Density:														
Large MSA	0.6	0.4	0.6	0.1	0.4	1.1	0.4	0.3	0.2	0.3	1.0	0.6	0.2	-0.4
Other MSA	0.5	8.0	0.5	0.6	0.7	0.7	0.3	0.6	0.3	0.5	0.1	0.4	0.3	-0.1
Non-MSA	0.5	8.0	0.4	0.4	0.3	0.5	0.6	0.2	0.4	0.0	0.3	0.1	0.6	+0.5
Parental Education: a														
1.0-2.0 (Low)	0.7	0.5	0.7	1.4	1.4	0.3	1.6	0.3	0.7	0.0	1.9	0.9	0.3	-0.6
2.5–3.0	0.1	0.5	0.5	0.0	0.0	1.0	0.5	0.7	0.4	0.2	0.5	0.7	0.2	-0.5
3.5–4.0	0.7	0.7	0.7	0.3	0.6	1.0	0.4	0.4	0.2	8.0	0.4	0.2	0.6	+0.4
4.5–5.0	0.1	0.9	0.2	0.6	0.6	0.6	0.3	0.7	0.1	0.3	0.3	0.2	0.4	+0.2
5.5–6.0 (High)	1.5	0.4	0.3	0.1	0.4	1.0	0.2	0.0	0.4	0.0	0.2	0.1	0.2	+0.1
Race/Ethnicity (2-year average): <sup>b</sup>														
White	0.5	0.4	0.5	0.6	0.4	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.3	+0.1
African American	0.2	0.2	0.2	0.2	0.1	0.3	0.7	0.6	0.6	0.6	0.3	0.2	0.4	+0.2
Hispanic	0.6	1.1	1.0	0.5	8.0	1.6	1.2	0.3	0.4	0.3	0.6	0.7	0.4	-0.3

Source. The M

The Monitoring the Future study, the University of Michigan.

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.'\*' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996; N is one half of N indicated in Table S1. Data based on three of four forms in 1997–1998; N is two thirds of N indicated in Table S1. Data based on two of four forms in 1999–2001; N is one third of N indicated in Table S1. Data are based on one of four forms beginning in 2002; N is one sixth of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 91

ROHYPNOL: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

				Percer	ntage who	o used in	last 12 r	months			
	1991–										
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	2004	<u>2005</u>
Approximate weighted N =	_	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	_	1.1	1.3	1.2	1.0	8.0	1.0	0.7	0.6	0.7	0.5
Gender:											
Male	_	1.1	1.4	1.4	1.2	1.0	1.1	0.4	0.7	8.0	0.3
Female	_	1.1	1.1	1.1	0.9	0.6	0.9	0.9	0.6	0.6	0.6
College Plans:											
None or under 4 years	_	2.9	2.7	2.9	2.8	1.4	2.8	0.5	0.3	1.4	1.6
Complete 4 years	_	0.8	1.1	0.9	0.8	0.6	0.7	0.7	0.6	0.6	0.3
Region:											
Northeast	_	0.6	0.7	0.9	0.4	0.6	0.9	0.4	1.0	8.0	0.7
Midwest	_	0.5	8.0	1.0	0.9	0.4	0.9	0.3	0.2	0.3	0.2
South	_	1.9	2.4	2.0	1.8	1.2	1.0	0.4	0.8	0.9	0.7
West	_	1.1	0.6	0.5	0.6	0.7	1.3	2.0	0.4	0.9	0.2
Population Density:											
Large MSA	_	1.1	1.3	1.3	0.9	0.9	1.2	0.7	0.3	0.6	0.3
Other MSA	_	1.4	1.3	1.3	1.3	0.9	0.8	0.9	0.4	0.7	0.5
Non-MSA	_	0.6	1.3	1.0	0.7	0.5	1.2	0.3	1.5	0.8	0.5
Parental Education: a											
1.0-2.0 (Low)	_	1.7	1.3	1.7	1.2	1.3	2.3	0.4	1.3	0.4	1.1
2.5–3.0	_	1.0	1.1	1.6	1.6	0.5	1.1	0.9	0.7	0.4	0.5
3.5-4.0	_	1.5	1.6	1.0	0.8	8.0	0.7	1.0	0.9	1.0	0.4
4.5–5.0	_	0.7	1.5	0.9	0.6	0.7	1.1	0.7	0.2	0.6	0.6
5.5-6.0 (High)	_	1.1	0.8	1.3	1.1	0.8	0.3	0.2	0.4	1.0	0.0
Race/Ethnicity (2-year average): b											
White	_	_	1.4	1.5	1.5	1.0	1.0	1.0	0.6	0.9	8.0
African American	_	_	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.4
Hispanic	_	_	1.0	1.2	1.1	0.7	0.9	1.0	0.7	0.3	0.2

TABLE 91 (cont.)

ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 10

					Percen	itage who	o used in	last 12 r	nonths					
		0007	0000	0000	0040	2011	0040	2010	2011	0045	0040	0047	0040	2017-2018
Approximate weighted N =	2006 16 200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	<u>change</u>
Total	0.5	0.7	0.4	0.4	0.6	0.6	0.5	0.6	0.5	0.2	0.5	0.3	0.3	0.0
Gender:	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Male	0.4	0.7	0.3	0.3	0.6	0.8	0.4	0.7	0.7	0.1	0.6	0.0	0.1	+0.1
Female	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.5	0.5	0.0
College Plans:	0	0	0.0	0.0	0.0	0.0	0.0	0	· · ·	0.0	0.2	0.0	0.0	0.0
None or under 4 years	1.5	1.4	0.5	0.9	1.2	0.9	2.3	0.6	1.8	0.7	2.4	0.4	0.9	+0.5
Complete 4 years	0.4	0.6	0.4	0.4	0.5	0.6	0.3	0.6	0.4	0.2	0.3	0.2	0.2	0.0
Region:														
Northeast	0.3	0.5	0.7	0.2	0.9	0.6	0.8	0.3	0.1	0.1	0.3	0.5	0.1	-0.4
Midwest	1.0	1.4	0.2	0.9	0.3	0.5	0.3	1.1	0.5	0.1	0.9	0.3	0.3	0.0
South	0.7	0.5	0.4	0.3	0.8	0.8	0.5	0.4	0.8	0.4	0.1	0.3	0.3	+0.1
West	0.0	0.4	0.4	0.3	0.2	0.6	0.5	0.4	0.7	0.1	1.0	0.1	0.5	+0.4
Population Density:														
Large MSA	0.2	0.7	0.1	0.3	0.5	0.7	0.5	0.8	0.3	0.4	0.5	0.4	0.2	-0.2
Other MSA	0.7	0.6	0.7	0.5	0.7	0.5	0.4	0.4	0.4	0.1	0.4	0.3	0.3	0.0
Non-MSA	0.8	0.9	0.3	0.4	0.4	0.9	0.5	0.7	1.3	0.0	0.8	0.0	0.6	+0.6
Parental Education: a														
1.0-2.0 (Low)	1.4	0.4	1.2	0.2	0.7	0.0	0.8	0.6	0.6	0.9	1.8	0.9	0.4	-0.4
2.5–3.0	0.3	0.6	0.3	0.4	0.3	0.6	0.8	0.5	1.3	0.0	0.7	0.1	0.0	-0.1
3.5-4.0	0.7	0.5	0.5	0.9	0.4	0.5	0.0	0.8	0.8	0.0	0.3	0.2	0.4	+0.3
4.5–5.0	0.3	0.6	0.2	0.1	0.6	1.2	0.2	0.6	0.1	0.2	0.2	0.3	0.4	+0.1
5.5-6.0 (High)	0.0	1.1	0.6	0.6	1.0	0.0	1.1	0.4	0.0	0.5	0.5	0.1	0.2	+0.1
Race/Ethnicity (2-year average): b														
White	0.5	0.6	0.5	0.5	0.6	0.8	0.6	0.5	0.7	0.5	0.4	0.3	0.4	+0.1
African American	0.3	0.0	0.0	0.1	0.3	0.5	0.3	0.1	0.5	0.3	0.3	0.3	0.1	-0.2
Hispanic	0.6	0.8	0.6	0.3	0.4	0.3	0.3	0.5	0.7	0.3	0.4	0.6	0.4	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent

inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996; N is one half of N indicated in Table S2. Data based on three of four forms in 1997–1998; N is two thirds of N indicated in Table S2. Data based on two of four forms in 1999–2001; N is one third of N indicated in Table S2. Data based on one of four forms beginning in 2002; N is one sixth of N indicated in Table S2.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 92

ROHYPNOL: Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

				Percer	ntage wh	o used in	last 12 i	months			
	1975–										
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001 <sup>a</sup>	2002 <sup>a</sup>	2003	2004	2005
Approximate weighted N =	_	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	_	1.1	1.2	1.4	1.0	8.0	0.9‡	1.6	1.3	1.6	1.2
Gender:											
Male	_	1.8	1.2	1.7	1.0	0.8	1.1‡	2.3	2.0	2.3	1.5
Female	_	0.3	1.1	1.1	1.0	0.7	0.6‡	1.0	0.5	0.7	0.8
College Plans:											
None or under 4 years	_	1.4	0.5	1.8	1.0	0.1	1.2‡	2.5	2.1	3.0	2.4
Complete 4 years	_	8.0	1.3	1.3	1.0	0.9	0.8‡	1.4	0.9	1.0	0.9
Region:											
Northeast	_	0.9	0.6	1.2	8.0	0.3	1.7‡	1.2	1.4	8.0	1.1
Midwest	_	1.0	0.5	1.0	8.0	0.9	0.5‡	1.8	1.2	1.3	1.7
South	_	1.8	2.2	2.6	1.6	1.3	1.0‡	1.5	1.4	2.1	1.3
West	_	0.1	8.0	0.0	0.2	0.1	0.8‡	2.0	1.1	1.8	0.6
Population Density:											
Large MSA	_	1.3	0.9	8.0	0.3	0.3	1.0‡	1.6	1.1	1.8	1.4
Other MSA	_	1.3	1.5	2.2	1.4	1.1	1.2‡	2.0	1.7	1.6	1.2
Non-MSA	_	0.7	0.7	0.6	0.9	0.7	0.3‡	1.1	0.9	1.2	1.1
Parental Education: <sup>b</sup>											
1.0–2.0 (Low)	_	1.6	0.4	0.6	4.7	0.0	4.2‡	3.7	2.8	3.4	3.9
2.5–3.0	_	0.5	0.6	1.0	0.3	0.4	0.4‡	2.9	1.8	1.8	1.2
3.5–4.0	_	8.0	1.4	1.1	1.1	1.5	0.8‡	8.0	1.2	1.5	1.4
4.5–5.0	_	0.9	1.7	2.7	0.3	0.6	0.8‡	1.6	0.9	0.6	0.3
5.5-6.0 (High)	_	1.8	1.7	1.4	0.7	0.0	0.2‡	8.0	0.2	1.5	0.9
Race/Ethnicity (2-year average): c											
White	_	_	1.2	1.6	1.5	0.9	0.8‡	_	1.5	1.3	1.1
African American	_	_	0.1	0.0	0.2	0.4	0.2‡	_	8.0	1.2	1.7
Hispanic	_	_	2.0	1.3	1.0	0.6	1.3‡	_	1.6	1.7	1.9

TABLE 92 (cont.)

ROHYPNOL: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

					Percer	itage who	o used in	last 12 r	nonths					
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	1.1	1.0	1.3	1.0	1.5	1.3	1.5	0.9	0.7	1.0	1.1	0.8	0.7	0.0
Gender:														
Male	1.3	0.9	1.5	1.1	2.2	2.0	1.2	0.9	0.9	0.9	1.0	0.7	0.5	-0.2
Female	0.5	0.7	0.8	0.8	0.7	0.5	0.7	0.7	0.4	0.7	1.0	0.8	0.4	-0.4
College Plans:														
None or under 4 years	1.6	1.8	2.3	1.8	3.8	1.7	2.7	1.7	0.6	1.0	3.9	2.5	1.5	-1.0
Complete 4 years	8.0	0.7	1.0	0.8	0.9	1.2	0.8	0.6	0.7	0.8	0.4	0.3	0.3	0.0
Region:														
Northeast	1.3	1.7	8.0	0.7	2.2	1.9	0.9	0.9	1.3	0.2	0.7	2.0	0.3	-1.7
Midwest	8.0	0.9	1.0	1.3	1.5	0.6	1.1	1.0	0.5	1.6	1.6	0.6	0.6	0.0
South	1.3	1.0	2.0	1.1	1.0	1.7	2.3	1.0	0.7	1.0	1.3	0.6	1.3	+0.8
West	1.3	0.5	0.9	0.5	1.8	1.0	1.1	0.7	0.3	8.0	0.6	0.4	0.1	-0.4
Population Density:														
Large MSA	1.2	1.0	0.6	1.0	1.5	0.7	1.4	0.5	0.7	1.4	0.6	0.6	0.7	+0.1
Other MSA	1.0	1.1	1.8	1.2	1.5	1.4	1.1	0.9	8.0	0.9	1.7	1.0	0.6	-0.4
Non-MSA	1.4	8.0	1.0	0.4	1.3	1.8	2.6	1.5	0.4	0.6	0.5	0.6	1.0	+0.4
Parental Education: b														
1.0-2.0 (Low)	1.2	1.3	1.6	2.1	1.0	3.6	1.4	2.1	3.2	0.7	3.8	1.0	1.0	+0.1
2.5–3.0	1.2	0.8	1.7	1.2	1.2	1.0	1.1	1.2	0.5	0.3	1.6	1.6	1.2	-0.4
3.5-4.0	1.0	0.5	1.3	0.8	1.3	1.1	1.4	0.3	0.3	8.0	0.2	0.4	0.6	+0.2
4.5–5.0	1.2	1.4	0.7	0.4	1.4	1.0	1.4	0.4	0.5	0.6	8.0	0.3	0.3	+0.1
5.5-6.0 (High)	0.7	0.9	0.6	0.9	2.0	1.0	1.1	0.0	0.0	0.3	0.0	0.2	0.3	+0.1
Race/Ethnicity (2-year average): c														
White	0.9	0.7	0.9	1.0	1.1	1.3	0.9	0.7	0.4	0.4	0.6	8.0	0.7	-0.1
African American	1.3	1.6	2.1	1.7	1.2	1.3	1.8	2.0	1.9	2.1	2.2	1.4	0.3	-1.1
Hispanic	2.1	1.5	0.8	1.3	1.5	1.0	1.5	1.4	0.8	0.5	0.8	0.7	0.8	+0.1

Notes.

'‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms in 1996–2001; N is one sixth of N indicated in Table S3. Data based on two of six forms beginning in 2002; N is two sixths of N indicated in Table S3. Data based on one of six forms beginning in 2010; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 93 **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Perce	ntage w	ho used	in last 30	0 days					
	<u>1991</u>	<u>1992</u>	<u>1993</u> <sup>a</sup>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004 <sup>a</sup>	<u>2005</u>
Approximate weighted N =		18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	25.1	26.1‡	24.3	25.5	24.6	26.2	24.5	23.0	24.0	22.4	21.5	19.6	19.7	18.6	17.1
Gender:															
Male	26.3	26.3‡	25.3	26.5	25.0	26.6	25.2	24.0	24.8	22.5	22.3	19.1	19.4	17.9	16.2
Female	23.8	25.9‡	23.7	24.7	24.0	25.8	23.9	21.9	23.3	22.0	20.6	20.0	19.8	19.0	17.9
College Plans:															
None or under 4 years	37.2	39.6‡	41.1	41.4	40.0	41.7	40.2	41.2	41.6	38.3	37.0	35.3	35.3	32.6	32.6
Complete 4 years	23.1	24.2‡	22.2	23.6	22.6	24.0	22.8	21.0	22.0	20.4	19.7	18.2	18.1	17.2	15.5
Region:															
Northeast	24.3	23.8‡	21.0	25.4	24.1	26.9	24.8	21.2	25.7	25.6	23.3	19.3	18.4	18.0	14.5
Midwest	26.6	28.3‡	24.7	24.2	24.7	26.9	22.8	23.9	25.7	24.1	21.2	19.1	21.9	19.3	16.9
South	25.1	26.8‡	25.4	25.6	25.5	26.3	26.4	23.8	24.4	20.9	22.8	21.6	20.8	18.8	19.0
West	23.1	23.5‡	25.6	27.2	23.1	24.8	22.7	22.2	19.8	20.2	18.1	17.0	16.0	17.9	16.4
Population Density:															
Large MSA	25.4	27.4‡	21.2	23.8	22.3	24.9	23.1	21.4	21.7	21.2	19.4	17.4	18.2	18.1	17.2
Other MSA	24.3	26.1‡	26.0	27.4	25.3	27.4	24.9	22.4	23.4	21.3	21.5	20.1	19.4	19.1	17.9
Non-MSA	26.2	24.2‡	24.9	23.8	26.0	25.7	25.4	26.0	28.1	26.1	24.1	21.4	22.3	18.1	15.6
Parental Education: b															
1.0-2.0 (Low)	30.7	32.8‡	28.0	33.5	30.8	28.1	29.7	28.9	30.7	30.2	28.5	27.6	25.5	24.2	23.8
2.5-3.0	27.0	27.2‡	28.0	27.4	27.8	30.1	26.2	26.5	27.9	26.3	27.0	23.2	24.0	22.1	20.4
3.5-4.0	25.1	26.3‡	25.9	26.7	26.8	27.6	27.8	24.5	25.2	23.0	23.3	21.2	22.0	20.0	18.8
4.5-5.0	22.8	24.6‡	20.6	22.6	21.0	25.0	22.6	20.2	20.4	18.4	17.2	17.0	16.0	16.3	14.6
5.5-6.0 (High)	24.0	25.2‡	22.3	23.6	20.5	21.5	20.5	21.3	22.1	19.0	16.4	15.1	15.7	15.8	13.1
Race/Ethnicity (2-year average): c															
White	_	26.6	27.1‡	25.3	25.4	26.6	26.7	24.8	24.7	24.7	23.2	21.5	20.1	19.2	17.9
African American	_	18.6	19.7‡	19.4	18.7	18.1	17.9	16.1	16.1	16.0	15.0	14.8	15.5	16.2	14.9
Hispanic		31.0	32.3‡	33.5	32.4	29.7	29.8	29.5	29.0	26.7	25.7	26.5	25.3	23.5	20.6

TABLE 93 (cont.) **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

					Perce	entage w	ho used	in last 30	) days					
														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	17.2	15.9	15.9	14.9	13.8	12.7	11.0	10.2	9.0	9.7	7.3	8.0	8.2	+0.2
Gender:														
Male	16.3	15.6	15.4	14.7	13.2	12.1	10.3	9.3	8.2	9.1	6.7	6.8	7.4	+0.5
Female	17.6	16.0	16.4	14.9	14.3	12.8	11.6	11.2	9.5	9.9	7.8	9.1	9.1	0.0
College Plans:														
None or under 4 years	30.8	33.5	30.4	31.7	25.7	24.6	23.3	23.6	17.0	15.5	14.6	14.5	15.7	+1.2
Complete 4 years	15.8	14.3	14.7	13.5	12.8	11.7	10.0	9.4	8.3	9.1	6.7	7.3	7.3	0.0
Region:														
Northeast	16.9	12.9	15.9	15.3	13.3	8.8	9.3	9.1	7.6	8.2	5.9	5.8	6.8	+1.0
Midwest	17.0	15.5	16.1	13.0	12.2	11.7	7.8	8.5	8.9	7.9	6.3	6.9	7.6	+0.7
South	18.5	17.1	18.2	17.4	15.7	14.2	13.3	12.5	9.8	10.8	8.4	8.1	8.0	-0.1
West	15.3	15.9	12.6	12.5	12.5	14.2	11.5	9.1	8.6	10.2	7.3	10.3	9.9	-0.4
Population Density:														
Large MSA	16.6	14.8	15.2	12.9	13.5	11.5	10.3	9.5	8.8	9.2	6.4	7.5	8.7	+1.1
Other MSA	17.4	16.1	16.3	15.9	14.0	13.1	11.8	10.4	9.0	9.6	7.0	8.0	7.9	0.0
Non-MSA	17.5	16.8	16.2	15.5	13.5	13.6	10.6	11.1	9.2	10.4	9.3	8.7	7.9	-0.8
Parental Education: b														
1.0-2.0 (Low)	24.1	26.1	25.5	22.8	19.2	19.7	17.1	16.2	11.3	13.4	10.3	11.8	10.8	-1.0
2.5-3.0	20.0	20.3	19.3	18.3	17.4	16.6	15.3	13.2	11.5	11.6	9.5	10.5	10.9	+0.4
3.5-4.0	19.0	16.9	16.8	16.8	15.3	14.1	11.7	12.7	10.7	10.4	6.9	8.5	9.5	+1.0
4.5-5.0	13.9	11.6	13.4	11.5	11.4	9.5	8.9	7.5	7.6	7.7	6.3	6.9	6.3	-0.6
5.5-6.0 (High)	13.8	11.2	11.5	10.4	9.2	9.3	7.3	7.4	6.5	8.0	6.2	5.5	6.4	+0.9
Race/Ethnicity (2-year average): c														
White	16.9	15.6	15.2	15.4	13.9	12.3	10.7	9.5	9.0	8.9	8.2	7.2	7.3	+0.1
African American	13.1	12.3	12.9	12.3	11.8	11.6	10.0	9.7	8.8	8.2	6.9	6.0	6.0	0.0
Hispanic	21.2	23.0	21.5	19.2	18.1	18.0	17.5	14.3	11.2	10.4	9.5	9.0	9.8	+0.8 s

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any 'apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only; N is one half of N indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005. <sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

°To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 94 **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

						Perce	ntage w	ho used	in last 30	) days					
	<u>1991</u>	<u>1992</u>	<u>1993</u> <sup>a</sup>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	<u>2004</u> <sup>a</sup>	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	42.8	39.9‡	38.2	39.2	38.8	40.4	40.1	38.8	40.0	41.0	39.0	35.4	35.4	35.2	33.2
Gender:															
Male	45.5	41.6‡	40.6	43.5	39.7	42.6	42.5	40.0	42.3	43.3	41.1	35.3	35.3	36.3	32.8
Female	40.2	38.3‡	35.6	34.8	37.8	38.3	37.9	37.7	38.1	38.6	36.8	35.7	35.3	34.0	33.6
College Plans:															
None or under 4 years	53.6	49.5‡	48.6	52.0	52.2	53.3	51.6	52.4	53.7	53.9	52.2	47.1	46.6	47.5	44.9
Complete 4 years	40.6	37.9‡	36.1	36.4	36.4	38.3	38.1	36.5	37.9	39.1	36.8	33.5	33.6	33.6	31.6
Region:															
Northeast	48.0	42.3‡	42.4	37.4	38.3	41.4	41.1	41.6	44.8	42.0	37.8	36.3	38.7	40.4	37.0
Midwest	43.5	40.3‡	37.4	39.6	38.9	39.1	38.6	37.6	40.9	42.5	41.0	35.7	34.4	30.9	31.9
South	41.7	38.2‡	38.0	40.5	39.4	41.7	40.8	39.9	38.8	39.1	38.3	33.7	34.8	36.4	33.4
West	39.6	39.8‡	35.6	38.2	38.0	38.9	39.9	35.5	36.1	41.1	38.2	37.2	34.1	33.7	30.7
Population Density:															
Large MSA	43.6	40.4‡	39.0	36.3	34.6	37.9	37.8	34.2	39.7	42.4	37.6	32.0	33.1	32.0	31.1
Other MSA	41.4	38.6‡	36.2	40.1	39.9	41.0	40.2	39.0	39.7	39.3	38.3	35.2	35.6	37.0	34.4
Non-MSA	44.8	41.9‡	41.3	40.6	41.3	42.1	42.6	43.7	41.0	42.4	41.8	40.4	38.3	35.8	33.5
Parental Education: b															
1.0-2.0 (Low)	42.1	40.4‡	37.5	38.6	43.5	43.2	39.2	39.9	40.6	41.1	38.6	38.2	38.4	38.6	36.5
2.5–3.0	43.9	40.9‡	40.6	41.5	42.3	42.6	41.1	41.2	42.3	42.8	41.4	38.0	37.4	38.5	36.0
3.5-4.0	44.2	40.0‡	38.0	40.6	38.8	42.2	41.6	40.1	40.2	42.8	41.0	36.4	36.6	37.5	33.5
4.5-5.0	40.7	39.4‡	36.2	37.7	37.9	37.8	39.3	36.9	38.7	40.2	37.0	33.7	32.7	32.6	31.8
5.5-6.0 (High)	44.9	41.7‡	39.3	35.4	34.3	39.6	38.9	37.0	40.9	39.0	37.1	32.0	34.1	32.4	31.8
Race/Ethnicity (2-year average): c															
White	_	44.1	43.1‡	40.4	41.0	42.2	43.0	42.7	43.0	43.9	42.7	40.0	38.7	37.8	37.0
African American	_	30.2	29.3‡	29.7	28.0	23.9	24.6	25.1	24.4	24.7	25.3	24.3	23.7	24.6	23.0
Hispanic	_	41.0	39.9‡	37.7	40.5	44.0	42.8	39.4	39.6	40.5	40.2	37.9	37.1	39.5	38.2

TABLE 94 (cont.) **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 10</u>

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16.100	15.100	15,900	15.200	14.900	15,000	12.900	13.000	15.600	14.700	13.500	14.300	change
Total	33.8	33.4	28.8	30.4	28.9	27.2	27.6	25.7	23.5	21.5	19.9	19.7	18.6	-1.1
Gender:														
Male	33.8	33.4	28.6	31.0	30.1	28.2	28.0	26.0	23.0	20.6	18.6	17.1	18.2	+1.1
Female	33.8	33.3	29.0	29.8	27.7	26.0	27.1	25.3	23.9	22.5	20.9	22.1	19.1	-3.0 s
College Plans:														
None or under 4 years	44.8	47.4	44.6	45.5	45.6	41.4	40.9	37.1	37.0	32.0	28.9	26.6	25.3	-1.3
Complete 4 years	32.5	31.7	26.9	28.8	26.9	25.6	26.3	24.4	22.1	20.5	19.0	18.8	17.7	-1.1
Region:														
Northeast	35.7	36.2	31.4	30.5	29.5	31.5	33.3	28.4	27.0	24.0	19.8	21.1	20.4	-0.7
Midwest	33.7	34.4	29.5	28.9	27.4	23.2	24.5	22.4	20.4	19.1	18.1	17.2	16.6	-0.6
South	32.8	31.2	29.0	32.2	29.9	27.7	28.3	27.4	24.3	22.9	21.7	19.2	19.5	+0.4
West	33.9	32.9	25.9	29.0	28.7	27.5	24.9	24.6	22.6	19.4	19.2	21.8	17.8	-4.0
Population Density:														
Large MSA	32.5	31.8	27.4	30.3	29.3	26.5	27.4	24.8	23.3	21.2	21.0	22.4	19.6	-2.8
Other MSA	34.5	33.3	28.7	29.7	28.4	27.7	26.9	26.5	24.0	21.4	18.1	17.9	18.8	+0.9
Non-MSA	34.4	36.2	31.1	31.9	29.4	27.1	29.1	24.9	22.6	22.4	23.0	19.8	16.8	-3.0
Parental Education: b														
1.0-2.0 (Low)	33.1	36.5	35.5	37.4	34.2	30.3	32.2	29.4	26.3	23.2	20.0	21.2	20.3	-0.9
2.5–3.0	38.0	37.0	30.9	32.9	33.1	30.2	28.6	30.3	25.0	22.8	22.0	18.4	19.0	+0.6
3.5-4.0	35.6	35.6	30.4	31.3	30.3	29.4	28.6	26.8	26.2	23.6	21.2	22.0	18.8	-3.3
4.5–5.0	32.0	31.5	25.9	28.2	26.3	24.3	27.6	22.6	21.3	19.9	19.2	18.6	17.3	-1.2
5.5-6.0 (High)	31.7	28.8	26.2	27.4	24.5	24.0	26.2	23.4	22.1	21.6	20.3	21.0	22.0	+1.1
Race/Ethnicity (2-year average): c														
White	36.3	35.9	33.3	31.5	30.8	29.1	29.1	28.2	26.4	24.6	23.0	22.4	21.9	-0.6
African American	21.5	21.7	20.6	20.2	20.7	20.8	20.2	19.0	16.6	15.1	13.9	11.4	10.2	-1.2
Hispanic	36.1	34.8	33.7	34.1	34.9	31.8	28.4	28.8	27.1	24.0	21.4	20.8	20.0	-0.8

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only; N is one half of N indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text

was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005. <sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 95 **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Percentage who used in last 30 days 1984 1975 1976 1977 1978 1979 1980 1981 1982 1985 1986 1987 1988 1989 1990 1983 15,200 Approximate weighted N = 9,400 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 68.3 71.8 70.7 69.7 65.3 60.0 57.1 Total 68.2 71.2 72.1 72.0 69.4 67.2 65.9 66.4 63.9 Gender: 77.5 69.0 69.9 Male 75.0 74.5 77.8 76.7 77.4 75.7 74.1 74.4 71.4 69.8 68.0 65.1 61.3 Female 62.2 61.8 65.0 67.1 67.0 66.8 65.7 65.4 64.3 62.8 62.1 61.9 63.1 59.9 54.9 52.3 College Plans: None or under 4 years 69.9 72.8 72.7 72.2 73.5 72.1 71.6 70.5 69.0 67.9 66.6 68.6 65.0 61.6 58.7 70.8 70.0 Complete 4 years 66.5 69.4 71.6 71.4 68.6 68.1 65.7 64.6 64.8 65.7 63.6 59.1 56.4 Region: Northeast 76.9 75.7 76.6 78.0 81.1 79.4 80.4 76.7 74.4 73.6 72.3 67.6 69.1 66.7 61.7 65.3 Midwest 71.1 73.2 76.4 77.2 73.9 75.1 73.6 75.0 74.4 70.6 66.8 71.3 70.7 67.9 65.9 61.5 South 62.8 60.2 64.7 67.0 65.7 65.5 62.9 61.3 64.3 62.1 60.0 58.2 60.7 58.6 55.1 51.0 West 60.0 62.2 64.4 63.1 65.5 67.6 65.3 63.8 62.9 63.6 66.2 64.5 66.7 65.0 59.3 51.6 Population Density: Large MSA 75.3 72.6 74.0 75.5 77.3 78.0 75.5 72.9 69.2 66.6 67.4 66.2 66.3 63.8 56.9 59.2 Other MSA 69.3 68.5 67.0 72.0 72.7 72.0 70.8 69.1 69.8 66.2 65.1 64.8 66.9 64.1 60.7 57.4 Non-MSA 63.2 66.5 67.8 68.4 67.3 69.0 68.9 67.6 69.0 69.0 65.9 65.2 65.5 63.8 61.7 Parental Education: b 1.0-2.0 (Low) 58.7 62.5 62.0 62.7 64.6 65.9 62.1 61.3 61.2 58.1 58.7 56.1 56.3 54.5 47.8 47.2 2.5-3.0 70.0 71.4 72.5 71.9 71.1 72.0 70.7 69.4 69.2 67.4 65.9 65.3 67.0 64.6 59.7 57.2 3.5-4.0 69.2 67.9 73.5 75.0 74.6 73.3 71.5 72.7 70.4 69.6 66.9 66.7 67.2 64.3 62.9 57.7 4.5-5.0 69.6 71.3 74.5 77.0 76.0 74.4 73.1 74.5 73.1 69.3 68.9 68.0 68.8 66.0 62.1 60.8 5.5-6.0 (High) 67.3 72.5 77.1 79.2 75.9 77.2 77.4 74.1 75.0 70.3 67.9 69.9 70.5 67.3 62.2 60.8 Race/Ethnicity (2-year average): c White 72.8 75.0 75.3 75.4 75.4 74.6 73.9 72.8 71.2 70.2 71.0 70.6 67.3 63.8 African American 49.5 48.7 47.2 47.6 46.7 46.0 47.7 45.5 42.8 42.1 39.4 39.8 39.5 35.8 64.5 Hispanic 63.0 63.8 63.6 62.0 60.3 59.1 59.7 58.1 56.3 57.2 57.8 52.9 49.1

TABLE 95 (cont.) **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

						Perce	entage wl	ho used	in last 30	days					
Annua vina eta vocialeta el NI	<u>1991</u>	<u>1992</u>	1993 <sup>a</sup>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	2004°	<u>2005</u>
Approximate weighted N =		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	54.0	51.3‡	48.6	50.1	51.3	50.8	52.7	52.0	51.0	50.0	49.8	48.6	47.5	48.0	47.0
Gender:															
Male	58.4	55.8‡	54.2	55.5	55.7	54.8	56.2	57.3	55.3	54.0	54.7	52.3	51.7	51.1	50.7
Female	49.0	46.8‡	43.4	45.2	47.0	46.9	48.9	46.9	46.8	46.1	45.1	45.1	43.8	45.1	43.3
College Plans:															
None or under 4 years	57.1	54.9‡	52.4	53.6	55.9	54.8	56.1	56.0	55.2	54.3	55.5	53.0	55.4	52.1	52.8
Complete 4 years	52.7	50.0‡	47.4	48.9	49.6	49.3	51.4	50.9	49.8	48.3	47.9	47.4	45.2	47.0	45.5
Region:															
Northeast	59.6	51.5‡	56.1	53.1	55.0	56.5	56.7	56.2	57.2	58.0	54.3	50.9	51.6	53.9	54.5
Midwest	59.7	58.0‡	51.6	53.8	55.3	51.5	51.5	51.9	51.1	52.3	54.5	52.1	50.8	49.5	48.0
South	49.1	48.1‡	47.7	49.2	50.6	51.1	51.1	51.4	49.5	44.9	45.9	46.8	43.0	43.5	43.9
West	49.7	46.7‡	39.8	44.2	43.2	42.1	52.7	49.2	47.8	48.3	44.9	45.0	47.0	47.3	43.6
Population Density:															
Large MSA	52.9	49.0‡	50.6	49.5	50.6	51.6	51.1	49.1	48.9	51.2	49.7	50.3	43.0	44.1	46.6
Other MSA	55.7	50.8‡	47.1	49.2	50.6	50.1	53.4	53.9	52.8	48.8	49.6	48.8	49.6	51.7	47.6
Non-MSA	52.0	54.1‡	49.8	52.5	53.4	51.4	52.9	51.6	50.1	50.8	50.0	45.9	49.6	45.5	46.1
Parental Education: b															
1.0–2.0 (Low)	49.9	45.6‡	36.6	43.5	45.9	41.2	43.8	43.8	46.8	43.4	42.9	42.2	43.6	42.1	38.2
2.5–3.0	53.3	52.3‡	49.0	49.9	52.0	48.2	51.0	50.1	50.5	50.0	49.0	47.9	47.8	46.8	47.8
3.5–4.0	54.3	51.2‡	51.2	50.1	50.6	51.4	52.1	55.6	51.1	51.3	51.4	50.9	47.9	52.4	47.8
4.5-5.0	54.8	51.0‡	49.8	52.6	51.8	53.6	55.3	52.4	50.2	48.1	51.5	48.9	47.5	47.7	50.2
5.5-6.0 (High)	58.0	55.7‡	53.2	52.2	55.1	54.2	57.4	54.7	56.0	54.0	49.5	51.1	49.3	47.4	46.0
Race/Ethnicity (2-year average): c															
White	60.0	56.8	55.6‡	54.0	54.5	54.8	56.4	57.7	56.3	55.1	55.3	54.0	52.3	52.2	52.3
African American	33.7	31.7	32.4‡	33.8	35.2	36.5	34.3	33.3	32.2	30.0	29.4	30.1	29.9	29.2	29.0
Hispanic	51.5	53.8	50.5‡	45.9	48.7	47.5	48.2	49.8	50.2	51.2	48.9	47.5	46.4	45.4	43.3

TABLE 95 (cont.) **ALCOHOL:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

	Percentage who used in last 30 days													
Approximate weighted N =	2006 14,200	2007 14.500	2008 14.000	2009 13.700	2010 14.400	<u>2011</u> 14.100	2012 13.700	2013 12.600	2014 12,400	2015 12,900	2016 11.800	2017 12.600	2018 13,300	2017-2018 <u>change</u>
Total	45.3	44.4	43.1	43.5	41.2	40.0	41.5	39.2	37.4	35.3	33.2	33.2	30.2	-3.0 s
Gender:	40.0	77.7	40.1	40.0	71.2	40.0	41.0	55.2	57.4	55.5	00.2	55.2	30.2	3.0 3
Male	47.3	47.1	45.8	47.8	44.2	42.1	43.8	41.8	37.4	36.0	34.5	34.1	30.4	-3.7 s
Female	43.0	41.4	40.9	38.9	37.9	37.5	38.8	36.3	37.1	35.0	32.0	32.3	30.1	-2.3
College Plans:									• • • • • • • • • • • • • • • • • • • •					
None or under 4 years	54.0	48.6	49.7	51.0	47.9	45.2	44.2	45.3	40.2	37.9	35.6	35.7	30.9	-4.8 s
Complete 4 years	43.2	43.3	41.7	41.6	39.3	38.8	40.7	37.9	36.6	35.0	32.5	32.8	30.0	-2.8 s
Region:														
Northeast	52.4	51.8	49.1	48.4	49.2	46.3	48.1	45.7	41.6	42.7	36.9	37.3	32.6	-4.7
Midwest	46.3	47.9	42.8	45.0	40.8	41.2	41.8	39.0	40.2	33.6	33.7	34.0	30.4	-3.6
South	43.2	43.1	42.9	42.0	39.6	37.5	36.6	35.4	34.6	33.1	31.3	31.7	30.0	-1.7
West	41.3	36.6	39.2	39.2	37.4	38.0	43.1	39.8	36.1	35.4	33.8	32.1	28.5	-3.6
Population Density:														
Large MSA	47.6	47.1	46.1	46.7	42.4	41.1	44.1	39.2	37.7	38.5	33.0	34.3	30.0	-4.2
Other MSA	43.9	42.1	40.4	41.5	41.6	41.1	41.8	40.8	38.7	33.4	33.6	30.5	28.3	-2.2
Non-MSA	44.7	45.2	45.8	43.7	38.5	35.8	36.9	35.3	33.7	35.0	32.7	37.5	34.9	-2.6
Parental Education: b														
1.0-2.0 (Low)	44.4	38.3	41.4	39.8	36.4	36.7	41.4	36.1	32.5	32.5	31.7	28.9	23.7	-5.3 s
2.5–3.0	46.7	46.0	42.4	43.4	42.4	38.8	41.4	40.3	38.2	35.3	31.4	31.1	27.1	-4.0 s
3.5-4.0	46.3	43.6	43.2	46.9	41.6	41.2	42.7	41.1	37.9	36.5	32.8	33.2	32.4	-0.7
4.5–5.0	42.9	45.0	43.9	42.0	42.1	40.1	41.7	39.5	38.7	36.1	35.7	35.8	32.0	-3.8 s
5.5-6.0 (High)	48.2	47.6	45.9	43.3	38.4	41.9	41.1	38.7	40.6	36.3	34.4	38.3	35.5	-2.9
Race/Ethnicity (2-year average): c														
White	50.7	49.3	48.6	47.2	45.4	43.8	43.8	43.6	42.5	40.9	39.0	39.0	38.0	-1.0
African American	29.2	28.7	28.6	30.5	31.4	30.1	29.6	28.4	25.9	24.0	21.8	20.3	21.2	+0.9
Hispanic	43.4	41.4	38.9	40.1	40.1	39.7	39.8	39.0	37.0	36.3	34.9	30.9	26.4	-4.5 sss

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1993, the question text was changed slightly in three of six forms to indicate that a drink meant more than a few sips. The 1993 data are based on the changed forms only; N is three sixths of N indicated. In 1994 the question text was changed in the remaining forms. Beginning in 1994, the data are based on all six forms. In 2004 the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 96
ALCOHOL: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 8</u>

# Percentage who used daily in last 30 days

	<u>1991</u>	<u>1992</u>	1993 <sup>a</sup>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004 <sup>a</sup>	<u>2005</u>
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	0.6	0.6‡	1.0	1.0	0.7	1.0	8.0	0.9	1.0	8.0	0.9	0.7	8.0	0.6	0.5
Gender:															
Male	0.7	0.8‡	1.5	1.2	1.0	1.4	0.9	1.2	1.3	1.0	1.2	8.0	8.0	0.6	0.6
Female	0.4	0.4‡	0.5	0.7	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.4	0.7	0.6	0.3
College Plans:															
None or under 4 years	1.6	2.2‡	2.7	2.8	1.9	3.0	2.0	3.1	3.4	1.8	2.8	2.8	2.3	2.2	1.9
Complete 4 years	0.4	0.4‡	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.3
Region:															
Northeast	0.4	0.5‡	0.7	1.0	0.6	1.0	8.0	1.0	1.0	0.6	8.0	0.7	0.6	0.3	0.3
Midwest	0.6	0.6‡	0.9	0.7	0.7	1.1	8.0	1.0	1.3	1.2	0.7	0.7	0.9	0.6	0.6
South	0.6	0.8‡	1.3	1.4	0.7	1.1	8.0	1.0	1.0	0.7	1.2	8.0	8.0	8.0	0.5
West	0.5	0.5‡	0.9	0.7	8.0	8.0	0.7	0.5	0.9	0.6	0.6	0.4	0.6	0.6	0.4
Population Density:															
Large MSA	0.4	0.6‡	1.1	0.6	0.6	0.9	0.4	0.7	1.0	0.4	0.5	0.4	0.7	0.5	0.5
Other MSA	0.5	0.6‡	0.6	1.0	0.6	1.0	0.9	0.8	8.0	0.7	0.9	0.8	0.7	0.5	0.4
Non-MSA	0.8	0.7‡	1.6	1.4	1.1	1.3	0.9	1.1	1.5	1.4	1.3	0.8	1.0	0.9	0.6
Parental Education: b															
1.0-2.0 (Low)	1.6	1.4‡	1.5	1.5	1.4	1.3	1.6	1.8	1.9	8.0	1.7	1.1	2.5	1.5	0.9
2.5-3.0	0.8	0.6‡	0.6	0.9	8.0	1.3	0.5	0.8	0.9	1.1	1.2	0.8	1.1	0.6	0.5
3.5-4.0	0.3	0.5‡	0.8	1.0	1.0	1.2	0.8	0.6	1.2	0.6	0.5	0.7	0.6	0.6	0.5
4.5–5.0	0.3	0.5‡	0.5	0.9	0.4	0.5	0.7	0.7	0.4	0.6	0.6	0.5	0.3	0.2	0.3
5.5-6.0 (High)	0.4	0.6‡	1.8	0.9	0.6	1.0	0.5	1.0	1.1	0.6	0.7	0.4	0.5	0.4	0.1
Race/Ethnicity (2-year average): c															
White	_	0.5	0.6‡	0.7	0.8	0.8	0.9	0.7	8.0	0.8	0.8	0.7	0.6	0.6	0.4
African American	_	0.5	1.0‡	1.2	0.9	0.8	0.6	0.6	0.9	0.5	0.4	0.5	0.5	0.6	0.6
Hispanic	_	1.1	1.2‡	1.6	1.5	1.4	1.4	1.3	1.3	1.1	1.2	1.3	1.4	1.4	0.8

TABLE 96 (cont.) **ALCOHOL:** Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 8</u>

#### Percentage who used daily in last 30 days

														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	0.5	0.6	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0
Gender:														
Male	0.5	0.8	1.0	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	-0.1
Female	0.4	0.3	0.4	0.4	0.5	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.0
College Plans:														
None or under 4 years	1.5	2.4	2.7	1.8	2.2	1.6	1.9	1.5	1.3	1.0	0.5	0.6	0.3	-0.3
Complete 4 years	0.3	0.4	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0
Region:														
Northeast	0.3	0.4	0.6	0.1	0.4	0.1	0.3	0.0	0.2	0.1	0.1	0.2	0.1	-0.2
Midwest	0.5	0.6	8.0	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.0	0.1	0.0	0.0
South	0.6	0.7	0.9	0.7	0.7	0.4	0.4	0.5	0.4	0.3	0.3	0.1	0.2	0.0
West	0.4	0.5	0.4	0.6	0.5	0.7	0.4	0.2	0.4	0.1	0.1	0.2	0.2	0.0
Population Density:														
Large MSA	0.4	0.4	0.7	0.3	0.5	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.1	0.0
Other MSA	0.5	0.6	0.8	0.4	0.5	0.4	0.4	0.2	0.3	0.2	0.1	0.1	0.2	0.0
Non-MSA	0.6	8.0	0.7	0.8	0.6	0.5	0.2	0.5	0.5	0.2	0.5	0.2	0.1	-0.2
Parental Education: b														
1.0-2.0 (Low)	0.7	1.3	1.8	2.1	1.3	0.5	0.3	0.2	0.8	0.2	0.2	0.3	0.1	-0.2
2.5–3.0	0.6	0.5	0.9	0.5	0.5	0.7	0.5	0.2	0.2	0.3	0.3	0.3	0.2	-0.1
3.5-4.0	0.6	0.7	0.7	0.4	0.6	0.4	0.4	0.6	0.3	0.2	0.3	0.2	0.0	-0.1
4.5-5.0	0.3	0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.0
5.5-6.0 (High)	0.3	0.4	0.6	0.4	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.0	0.2	+0.1
Race/Ethnicity (2-year average): c														
White	0.4	0.4	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	-0.1
African American	0.5	0.5	0.6	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.0
Hispanic	0.6	0.8	1.0	1.0	0.9	0.8	0.7	0.4	0.3	0.3	0.2	0.2	0.2	0.0

Source. The Monitoring the Future study, the University of Michigan.

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. 'Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only; N is one half of N indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005. <sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 97

ALCOHOL: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

# Percentage who used daily in last 30 days

	4004	4000	1993 <sup>a</sup>	1001	4005	4000	4007	4000	4000	0000	0004	0000	0000	2004 <sup>a</sup>	0005
	<u>1991</u>	<u>1992</u>		<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003		<u>2005</u>
Approximate weighted N =		14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	1.4	1.3‡	1.8	1.7	1.7	1.6	1.7	1.9	1.9	1.8	1.9	1.8	1.5	1.3	1.3
Gender:															
Male	2.3	1.6‡	2.6	2.5	2.6	2.4	2.5	2.8	2.9	2.7	2.9	2.6	2.0	1.9	1.9
Female	0.4	0.8‡	1.0	8.0	8.0	0.8	8.0	1.2	0.9	0.8	0.9	1.0	1.0	0.7	0.7
College Plans:															
None or under 4 years	2.0	3.2‡	3.6	3.6	4.0	3.2	4.0	4.3	4.5	4.0	4.6	3.7	3.0	3.7	3.9
Complete 4 years	1.2	0.8‡	1.5	1.2	1.3	1.3	1.3	1.5	1.5	1.4	1.4	1.4	1.2	1.0	1.0
Region:															
Northeast	1.3	0.9‡	1.8	0.9	1.5	1.0	1.5	2.3	1.9	1.3	1.6	1.4	1.5	0.9	1.4
Midwest	1.4	1.5‡	1.8	1.7	1.8	1.6	1.6	2.1	2.3	1.9	1.6	1.7	1.2	1.0	1.1
South	1.6	1.2‡	1.8	2.3	1.8	1.8	1.9	1.9	1.6	2.0	1.9	1.8	1.5	1.6	1.4
West	1.0	1.4‡	1.7	1.6	1.8	1.9	1.8	1.5	1.9	1.7	2.4	2.0	1.8	1.6	1.4
Population Density:															
Large MSA	1.3	1.2‡	1.1	1.3	1.3	1.5	1.2	1.5	2.0	1.6	1.8	1.4	1.4	0.7	0.9
Other MSA	1.2	1.0‡	1.4	1.7	1.8	1.5	1.6	1.7	1.7	1.6	1.6	1.8	1.4	1.5	1.4
Non-MSA	1.6	1.9‡	3.2	2.1	2.2	1.9	2.5	2.9	2.2	2.3	2.5	2.1	2.0	1.5	1.7
Parental Education: b															
1.0-2.0 (Low)	2.6	2.0‡	3.1	1.9	2.9	1.6	2.1	2.7	2.4	2.2	2.9	2.0	2.3	1.6	1.7
2.5-3.0	1.5	1.1‡	2.1	1.9	2.1	1.6	2.1	2.4	2.1	2.3	1.9	2.1	1.6	1.6	2.0
3.5-4.0	1.1	1.3‡	1.7	1.7	1.7	1.6	1.9	2.0	1.9	1.9	1.5	1.5	1.4	1.1	1.2
4.5–5.0	1.1	0.8‡	1.0	1.3	1.3	1.5	1.2	1.2	1.5	1.4	1.7	1.6	1.6	1.1	0.7
5.5-6.0 (High)	1.2	1.5‡	2.0	1.2	0.9	1.4	0.8	1.9	2.0	1.2	1.7	1.8	0.9	1.2	0.9
Race/Ethnicity (2-year average): c															
White	_	1.3	1.4‡	1.6	1.7	1.7	1.6	1.8	1.9	1.8	1.7	1.8	1.7	1.5	1.4
African American	_	0.9	1.2‡	1.2	1.1	0.6	0.7	1.0	1.0	1.1	1.4	1.2	0.9	0.5	0.5
Hispanic	_	1.6	1.9‡	1.8	2.3	2.3	2.0	2.4	2.4	2.0	2.6	2.4	1.8	1.7	1.6

TABLE 97 (cont.) **ALCOHOL:** Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

2017-2018

Percentage who used daily in last 30 days

															2011 2010
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approxima	ate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total		1.4	1.4	1.0	1.1	1.1	8.0	1.0	0.9	8.0	0.5	0.5	0.6	0.5	-0.1
Gender:															
Male		1.8	1.9	1.4	1.5	1.7	1.1	1.4	1.3	1.1	0.7	8.0	0.7	0.6	-0.1
Female		1.0	0.9	0.6	0.7	0.6	0.4	0.5	0.5	0.6	0.3	0.3	0.4	0.3	-0.1
College Plans:															
None or under 4	years	3.2	3.3	2.1	3.5	3.3	2.2	3.0	1.9	2.7	1.3	1.1	1.5	0.9	-0.6
Complete 4 years	S	1.2	1.2	0.9	0.9	0.9	0.6	0.7	0.8	0.6	0.4	0.5	0.4	0.4	0.0
Region:															
Northeast		1.6	1.5	1.1	8.0	0.7	8.0	1.2	0.9	0.5	0.3	0.6	0.5	8.0	+0.3
Midwest		1.3	1.6	0.9	1.1	1.2	0.5	0.8	0.6	0.6	0.3	0.5	0.6	0.3	-0.4
South		1.6	1.2	1.1	1.3	1.1	0.9	1.2	1.3	1.2	0.7	0.6	0.5	0.6	0.0
West		1.2	1.6	0.9	1.2	1.5	0.8	0.8	0.8	0.7	0.5	0.5	0.6	0.4	-0.2
Population Density	<i>r</i> :														
Large MSA		1.3	1.3	0.9	1.0	1.2	8.0	8.0	1.0	0.6	0.4	0.5	0.6	0.4	-0.2
Other MSA		1.4	1.5	1.0	1.1	1.0	0.7	8.0	0.8	0.7	0.5	0.4	0.3	0.5	+0.1
Non-MSA		1.8	1.6	1.2	1.3	1.3	0.9	1.5	0.9	1.4	0.6	0.9	1.1	0.7	-0.3

Source. The Monitoring the Future study, the University of Michigan.

2.9

1.9

1.5

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2.0

3.6

1.6

1.2

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1.0

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0.2

0.4

-0.2

-0.2

+0.4

0.0

+0.0

0.0

-0.2

-0.4 s

The Monitoring the Future study, the Oniversity of Michigan

Parental Education: b
1.0–2.0 (Low)

2.5-3.0

3.5-4.0

4.5-5.0

Hispanic

5.5-6.0 (High)

African American

Race/Ethnicity (2-year average): c

<sup>&#</sup>x27;‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only; N is one half of N indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 98 **ALCOHOL:** Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

	Percentage who used daily in last 30 days															
Approximate weighted N =	1975 9,400	<u>1976</u> 15,400	<u>1977</u> 17,100	<u>1978</u> 17,800	<u>1979</u> 15,500	<u>1980</u> 15,900	<u>1981</u> 17,500	<u>1982</u> 17,700	1983 16,300	<u>1984</u> 15,900	<u>1985</u> 16,000	<u>1986</u> 15,200	1987 16,300	1988 16,300	<u>1989</u> 16,700	<u>1990</u> 15,200
Total		5.6	6.1	5.7	6.9	6.0	6.0	5.8	5.5	4.8	5.0	4.7	4.8	4.2	4.2	3.7
Gender:																
Male	_	8.1	8.6	8.3	9.7	8.6	8.4	7.7	7.7	6.6	7.0	6.7	7.2	6.2	6.0	5.2
Female	_	2.7	3.6	3.2	4.0	3.6	3.4	3.4	2.9	2.7	3.0	2.8	2.5	2.3	2.2	1.9
College Plans:																
None or under 4 years	_	7.3	8.0	7.3	9.1	8.1	7.7	7.5	6.7	6.0	6.5	6.8	7.0	6.0	6.1	4.9
Complete 4 years	_	3.6	4.0	4.1	5.0	4.4	4.6	4.1	4.0	3.6	4.0	3.5	3.6	3.4	3.2	3.0
Region:																
Northeast	_	6.3	6.5	6.2	8.7	7.4	7.5	6.3	5.9	6.5	6.6	4.9	4.2	4.2	4.3	4.6
Midwest	_	6.9	6.7	7.0	6.8	6.7	6.6	7.6	6.2	4.3	4.4	4.9	5.3	4.8	5.1	3.9
South	_	4.6	5.9	5.0	7.2	5.2	5.2	5.0	5.4	5.3	5.0	4.9	5.1	4.0	4.0	3.4
West	_	3.8	4.3	3.8	3.8	4.5	4.3	2.8	3.6	2.8	4.0	4.2	4.5	3.9	3.5	2.9
Population Density:																
Large MSA	_	5.4	5.9	6.2	7.0	7.1	6.5	6.4	5.6	5.1	5.3	4.1	3.7	3.5	4.0	4.7
Other MSA	_	5.4	5.8	5.5	6.1	5.4	5.3	5.1	5.7	4.5	5.1	4.5	5.4	4.5	3.9	3.2
Non-MSA	_	6.1	6.5	5.7	7.9	6.1	6.6	6.1	5.9	5.1	4.8	5.8	4.9	4.5	5.2	3.8
Parental Education: b																
1.0-2.0 (Low)	_	5.7	5.0	4.7	6.2	6.3	5.8	5.2	6.1	5.2	5.5	5.5	5.8	5.0	3.9	3.1
2.5–3.0	_	6.2	7.1	6.4	7.2	6.5	6.3	6.1	5.2	5.1	5.2	4.7	4.5	4.3	5.0	3.9
3.5–4.0	_	5.0	5.3	5.3	6.4	5.5	6.1	5.5	5.3	4.6	4.7	4.6	4.9	3.8	4.0	3.5
4.5–5.0	_	5.6	5.7	5.6	6.7	5.8	4.8	5.6	5.1	4.1	4.5	4.4	4.8	3.9	3.8	3.4
5.5–6.0 (High)	_	5.0	6.3	5.6	8.8	5.5	6.3	5.2	5.6	4.1	4.8	4.0	4.5	4.8	3.0	4.2
Race/Ethnicity (2-year average): c																
White	_	_	6.0	6.2	6.6	6.8	6.5	6.3	5.9	5.3	5.1	5.2	5.1	4.8	4.5	4.2
African American	_	_	2.2	2.0	2.1	2.5	2.3	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.4	2.1
Hispanic	_	_	5.3	4.6	4.0	4.3	4.5	3.7	3.2	4.0	5.0	4.7	4.6	4.6	4.3	3.8

TABLE 98 (cont.) **ALCOHOL:** Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

	Percentage who used daily in last 30 days														
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 <sup>a</sup> 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 <sup>c</sup>	2005 14,700
Total	3.6	3.4‡	3.4	2.9	3.6	3.7	3.9	4.0	3.4	2.9	3.6	3.5	3.2	2.8	3.1
Gender:															
Male	5.3	5.2‡	5.3	4.8	5.5	5.2	5.7	6.4	5.2	4.7	5.5	5.3	4.7	4.1	4.4
Female	1.6	1.6‡	1.6	1.2	1.6	2.0	1.9	1.4	1.4	1.1	1.7	1.7	1.6	1.4	1.6
College Plans:															
None or under 4 years	5.4	5.3‡	4.3	4.4	5.4	5.0	6.0	6.8	5.9	4.8	5.3	4.8	5.0	4.3	5.6
Complete 4 years	2.9	2.7‡	2.9	2.4	2.9	3.1	3.2	3.0	2.6	2.2	2.9	3.1	2.4	2.2	2.3
Region:															
Northeast	3.3	2.9‡	5.3	3.0	2.8	4.1	3.7	4.1	2.8	3.0	3.1	2.8	3.7	3.3	3.1
Midwest	3.9	3.7‡	3.3	3.1	4.3	3.8	4.5	4.1	3.2	3.1	4.5	4.6	3.4	2.6	3.6
South	4.1	3.7‡	3.5	3.0	3.8	3.6	4.1	4.2	3.9	2.8	3.5	3.3	3.0	2.8	3.2
West	2.7	2.9‡	1.8	2.5	2.8	3.1	3.2	3.2	3.2	2.9	3.0	3.0	2.6	2.5	2.1
Population Density:															
Large MSA	3.3	3.4‡	2.7	2.5	3.5	4.4	3.9	3.4	2.3	3.0	3.6	3.4	2.1	2.5	2.8
Other MSA	3.5	3.1‡	3.6	2.8	3.5	3.3	4.0	4.1	3.4	2.7	3.6	3.2	3.5	3.3	3.1
Non-MSA	4.1	4.1‡	3.6	3.6	3.6	3.7	3.9	4.3	4.4	3.4	3.7	4.2	3.9	2.3	3.4
Parental Education: b															
1.0-2.0 (Low)	4.2	3.0‡	3.6	2.3	3.9	2.6	3.8	5.3	4.0	3.5	3.5	2.5	2.7	3.4	2.6
2.5–3.0	4.1	4.0‡	2.6	3.4	3.9	3.5	3.7	4.1	3.6	2.9	3.4	3.4	3.6	3.0	3.7
3.5–4.0	3.0	2.9‡	3.7	2.5	2.7	3.4	3.2	4.0	3.3	3.0	3.4	3.7	2.9	2.9	2.5
4.5–5.0	3.1	2.8‡	3.6	2.8	3.9	4.0	3.9	3.6	2.9	2.4	3.3	3.1	3.0	2.0	3.1
5.5-6.0 (High)	4.1	4.7‡	2.9	3.1	3.5	3.6	4.7	3.1	3.2	2.9	3.9	4.0	2.3	2.6	2.7
Race/Ethnicity (2-year average): c															
White	3.8	3.6	3.1‡	3.1	3.3	3.7	4.1	4.3	3.9	3.3	3.5	3.8	3.6	3.2	3.3
African American	1.6	1.9	2.3‡	2.6	2.5	2.2	1.8	1.8	1.6	1.4	1.6	1.6	1.5	1.2	1.1
Hispanic	3.6	3.6	2.8‡	3.1	3.5	4.0	4.0	4.3	4.8	5.0	4.1	3.3	2.8	2.7	2.9

TABLE 98 (cont.)

ALCOHOL: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

	Percentage who used daily in last 30 days													
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	3.0	3.1	2.8	2.5	2.7	2.1	2.5	2.2	1.9	1.9	1.3	1.6	1.2	-0.4 s
Gender:														
Male	4.3	4.3	4.0	3.6	3.6	2.9	3.6	3.0	2.8	2.3	1.7	2.2	1.6	-0.6
Female	1.5	1.9	1.7	1.3	1.6	1.2	1.2	1.2	1.0	1.4	8.0	0.7	0.5	-0.2
College Plans:														
None or under 4 years	4.9	4.8	5.1	5.0	4.4	4.1	3.8	4.8	3.7	3.9	2.6	2.9	2.4	-0.4
Complete 4 years	2.4	2.6	2.2	1.8	2.2	1.6	2.1	1.5	1.4	1.4	1.0	1.2	0.7	-0.5 ss
Region:														
Northeast	3.3	3.5	2.2	2.2	2.9	2.8	3.3	2.2	1.3	2.0	1.6	1.2	1.2	+0.1
Midwest	3.3	3.3	2.9	3.2	3.2	2.6	2.6	2.3	2.1	2.1	1.4	1.2	0.8	-0.4
South	3.1	3.4	3.8	2.3	2.9	1.7	2.1	2.2	1.9	1.8	1.3	2.1	1.5	-0.6
West	2.4	2.0	1.7	2.1	1.8	1.8	2.5	1.9	1.9	1.8	1.3	1.4	0.9	-0.4
Population Density:														
Large MSA	3.4	3.1	2.1	2.5	2.7	2.3	2.2	1.8	1.6	2.1	1.3	1.5	1.0	-0.5
Other MSA	2.8	3.3	2.6	2.6	2.7	2.1	2.8	2.2	2.0	1.5	1.2	1.6	1.2	-0.5
Non-MSA	3.0	2.6	4.2	2.3	2.8	2.0	2.4	2.7	1.9	2.7	1.7	1.7	1.6	-0.1
Parental Education: b														
1.0-2.0 (Low)	3.1	3.6	2.6	3.3	2.9	2.4	2.8	2.3	2.6	3.1	1.6	1.3	1.0	-0.2
2.5–3.0	3.4	3.6	2.6	2.4	2.9	2.9	2.2	3.0	1.5	1.8	1.4	1.6	1.0	-0.7
3.5-4.0	2.8	2.9	2.7	2.5	2.3	2.1	2.5	1.7	1.5	1.8	0.9	1.4	1.2	-0.3
4.5–5.0	2.7	3.0	2.9	2.1	2.5	1.3	2.5	2.1	2.2	1.6	1.5	1.5	1.1	-0.4
5.5-6.0 (High)	2.8	2.4	2.6	1.5	2.0	2.0	2.5	1.7	1.8	1.5	0.9	1.1	1.4	+0.3
Race/Ethnicity (2-year average): c														
White	3.4	3.4	3.4	2.9	2.6	2.5	2.5	2.4	2.0	1.9	1.7	1.7	1.7	+0.1
African American	1.5	1.5	1.3	1.4	2.1	2.0	1.5	1.5	1.4	1.1	8.0	0.9	0.9	0.0
Hispanic	2.9	3.1	2.8	2.5	2.5	2.4	2.3	2.7	2.3	2.0	1.9	1.2	0.8	-0.4 s

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>In 1993, the question text was changed slightly in three of six forms to indicate that a drink meant more than a few sips. The 1993 data are based on the changed forms only; N is three sixths of N indicated. In 1994 the question text was changed in the remaining forms. Beginning in 1994, the data are based on all six forms. In 2004 the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 99 **BEEN DRUNK:** Trends in <u>30-Day</u> Prevalence by Subgroups in <u>Grade 8</u>

					Pe	rcentage	who ha	d been o	drunk in	ast 30 da	ays					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	
Total	7.6	7.5	7.8	8.7	8.3	9.6	8.2	8.4	9.4	8.3	7.7	6.7	6.7	6.2	6.0	
Gender:																
Male	8.4	7.4	7.8	9.0	8.2	9.7	8.4	8.5	10.2	8.2	7.8	7.1	6.6	5.8	5.9	
Female	7.0	7.6	7.8	8.3	8.2	9.5	7.9	8.2	8.6	8.1	7.4	6.3	6.8	6.6	6.2	
College Plans:																
None or under 4 years	15.8	17.2	18.4	20.0	17.2	19.3	18.7	21.4	22.4	18.9	18.9	15.5	17.0	16.1	15.7	
Complete 4 years	6.4	6.1	6.4	7.3	7.3	8.2	7.1	6.9	8.0	7.0	6.5	5.9	5.7	5.2	5.1	
Region:																
Northeast	5.7	6.4	6.2	8.2	8.2	9.7	7.9	6.9	9.4	8.3	8.0	5.3	4.9	4.8	4.2	Table continued on next pa
Midwest	7.7	7.6	7.3	8.3	8.3	10.2	8.2	10.4	11.6	9.7	8.2	7.0	8.1	6.8	6.2	
South	8.8	8.2	8.3	8.8	8.4	9.1	8.3	7.8	9.5	7.4	8.1	7.6	7.2	6.4	7.1	
West	7.3	6.9	9.4	9.6	8.2	9.8	8.3	8.3	6.6	8.1	6.0	5.9	6.0	6.4	5.8	
Population Density:																
Large MSA	7.4	7.0	6.0	7.6	7.2	8.9	6.7	6.9	7.8	7.1	6.3	5.2	5.6	5.4	5.4	
Other MSA	7.3	7.4	8.4	9.7	8.9	9.9	8.6	7.5	8.4	7.2	7.9	7.3	6.8	6.5	6.1	
Non-MSA	8.4	8.2	8.8	7.9	8.6	10.0	9.2	11.7	13.3	12.0	8.9	7.3	8.1	6.5	6.9	
Parental Education: a																
1.0-2.0 (Low)	13.4	11.0	10.4	12.5	13.1	11.1	11.5	13.1	14.5	14.0	12.1	10.5	13.4	10.0	9.3	
2.5–3.0	9.2	8.8	9.2	9.3	9.6	11.9	9.3	9.5	11.7	10.5	9.7	8.5	9.4	7.4	8.4	
3.5-4.0	6.9	7.6	8.5	9.3	9.4	10.4	10.2	9.1	9.9	8.0	8.7	6.7	7.1	6.8	6.7	
4.5–5.0	6.1	6.5	5.9	7.5	6.4	8.7	6.7	7.0	6.9	5.6	5.7	5.5	4.5	5.0	4.6	
5.5–6.0 (High)	6.8	4.9	6.7	7.6	6.0	7.1	5.8	6.9	8.7	7.1	4.6	4.8	4.2	4.4	3.5	
Race/Ethnicity (2-year average): <sup>b</sup>																
White	_	7.7	7.8	8.4	8.9	9.7	9.7	9.1	9.8	10.0	9.0	8.0	7.2	6.8	6.6	
African American	_	5.4	5.1	5.6	5.6	5.5	4.6	3.9	4.9	4.7	4.0	4.0	4.2	4.1	3.8	
Hispanic	_	9.9	9.9	10.8	10.8	10.8	10.4	9.8	9.9	8.5	7.8	8.4	8.5	8.1	7.0	

TABLE 99 (cont.)

BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 8

_	Percentage who had been drunk in last 30 days													
														2017-2018
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	6.2	5.5	5.4	5.4	5.0	4.4	3.6	3.5	2.7	3.1	1.8	2.2	2.1	-0.2
Gender:														
Male	6.1	5.3	5.3	5.3	4.8	4.4	3.3	3.0	2.7	2.9	1.8	1.6	1.8	+0.2
Female	6.2	5.6	5.4	5.3	5.2	4.2	3.8	4.0	2.7	3.0	1.7	2.8	2.3	-0.5
College Plans:														
None or under 4 years	15.4	16.3	14.9	14.9	12.9	10.9	9.5	10.9	6.7	6.7	5.3	5.2	4.5	-0.6
Complete 4 years	5.4	4.6	4.6	4.6	4.4	3.9	3.1	3.0	2.4	2.7	1.5	1.9	1.8	-0.2
Region:														
Northeast	5.8	3.5	4.5	4.7	4.2	2.9	3.5	2.7	2.0	2.6	0.9	1.5	1.5	0.0
Midwest	6.3	5.7	5.3	5.0	4.7	4.1	2.2	2.6	2.3	2.4	1.4	2.0	2.0	-0.1
South	6.9	6.1	6.8	6.5	5.7	4.4	4.4	4.5	2.8	3.3	2.2	2.4	2.0	-0.4
West	5.2	5.7	4.2	4.4	4.8	5.7	3.5	3.3	3.4	3.6	1.9	2.7	2.8	+0.1
Population Density:														
Large MSA	5.1	4.8	5.4	4.0	4.7	3.5	3.1	3.1	2.5	2.6	1.2	2.1	2.0	-0.1
Other MSA	6.4	5.6	5.2	5.8	5.2	4.8	4.1	3.3	2.8	3.3	1.8	2.1	2.1	0.0
Non-MSA	7.5	6.4	5.9	6.3	5.0	4.7	3.2	4.6	3.0	3.2	2.6	2.9	2.3	-0.7
Parental Education: a														
1.0–2.0 (Low)	9.4	10.6	10.1	10.1	7.8	7.9	6.0	6.4	3.8	4.9	3.5	2.8	2.2	-0.6
2.5–3.0	7.9	7.9	7.4	6.3	7.1	6.6	5.6	4.6	3.4	4.1	2.2	3.0	2.5	-0.4
3.5–4.0	7.1	6.0	5.8	5.4	5.3	4.8	4.1	4.3	2.9	2.6	1.5	2.6	2.3	-0.3
4.5–5.0	4.4	3.1	3.7	4.4	4.2	3.2	2.6	2.4	2.4	2.3	1.4	1.9	1.7	-0.2
5.5-6.0 (High)	4.6	3.1	3.3	3.4	2.6	2.7	1.6	2.2	2.2	2.5	1.4	1.8	1.9	+0.1
Race/Ethnicity (2-year average): b														
White	6.4	5.9	5.5	5.5	5.3	4.7	3.9	3.3	2.9	2.6	2.3	2.0	2.1	+0.1
African American	3.6	3.7	3.8	3.6	3.4	2.9	2.7	3.0	2.4	2.0	1.7	1.4	1.6	+0.2
Hispanic	7.2	7.4	6.7	6.2	5.8	5.6	5.5	4.5	3.6	3.5	2.8	2.2	2.2	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 100

BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 10

					Pe	rcentage	e who ha	d been o	drunk in I	ast 30 d	ays				
Approximate weighted N =	<u>1991</u> 14,800	<u>1992</u> 14,800	1993 15,300	<u>1994</u> 15,800	<u>1995</u> 17,000	<u>1996</u> 15,600	<u>1997</u> 15,500	<u>1998</u> 15,000	1999 13,600	2000 14,300	2001 14,000	2002 14,300	2003 15,800	2004 16,400	2005 16,200
Total	20.5	18.1	19.8	20.3	20.8	21.3	22.4	21.1	22.5	23.5	21.9	18.3	18.2	18.5	17.6
Gender:															
Male	22.3	18.6	21.4	23.2	21.9	23.0	24.6	22.3	25.4	26.2	24.2	19.3	18.8	20.2	18.2
Female	18.7	17.5	18.1	17.2	19.6	19.8	20.2	19.9	19.8	20.9	19.7	17.4	17.7	17.0	16.8
College Plans:															
None or under 4 years	29.5	26.3	29.0	31.1	31.4	32.0	35.5	33.5	34.6	35.1	34.8	27.4	27.4	27.5	27.8
Complete 4 years	18.6	16.4	17.9	18.0	19.0	19.7	20.3	19.1	20.7	21.8	19.8	16.8	16.9	17.4	16.3
Region:															
Northeast	23.9	18.8	20.0	19.0	19.5	22.4	21.9	23.1	25.8	22.8	19.9	18.1	20.3	22.4	20.5
Midwest	21.8	18.9	20.1	21.0	22.6	22.0	23.3	21.8	26.0	27.6	24.0	18.7	18.8	16.6	17.4
South	19.2	16.8	19.8	20.9	20.9	21.4	22.0	21.9	20.3	21.4	21.5	17.5	17.6	18.7	17.2
West	18.2	18.3	19.0	19.5	19.5	19.3	22.6	17.0	19.0	22.4	21.2	19.5	16.5	16.7	15.2
Population Density:															
Large MSA	20.6	17.6	17.6	16.1	18.2	19.6	20.7	17.2	21.6	23.4	19.5	16.5	15.7	15.1	16.2
Other MSA	20.1	17.3	18.2	21.7	21.8	21.9	21.8	21.2	22.7	22.5	21.6	18.0	18.6	20.5	18.3
Non-MSA	21.1	19.9	24.7	21.8	21.8	22.4	25.5	25.4	23.4	25.4	25.3	21.4	21.4	19.0	17.8
Parental Education: a															
1.0-2.0 (Low)	20.9	18.2	22.2	20.0	23.4	22.1	19.7	20.1	21.8	21.3	22.0	17.3	19.0	17.7	15.8
2.5–3.0	22.5	18.5	21.4	21.2	22.9	23.4	22.5	23.3	23.4	24.5	22.6	19.9	18.9	21.0	19.4
3.5-4.0	20.4	19.4	19.4	22.1	21.4	22.1	24.1	21.3	23.3	24.5	22.8	19.5	19.3	18.9	17.5
4.5–5.0	19.7	17.1	18.2	18.7	19.7	19.5	22.3	20.2	21.7	24.1	21.4	17.4	17.5	17.3	17.5
5.5-6.0 (High)	20.6	18.5	18.6	17.9	17.9	22.3	22.4	20.4	24.0	23.1	21.5	16.8	17.7	19.3	17.0
Race/Ethnicity (2-year average): b															
White	_	21.6	20.8	22.0	22.7	23.7	25.0	25.5	25.7	26.7	25.8	23.2	21.9	21.7	21.0
African American	_	9.4	10.3	10.1	9.8	8.5	8.6	8.8	7.6	8.6	9.5	8.6	8.0	8.3	8.0
Hispanic	_	16.2	15.9	17.0	18.6	20.1	19.5	18.0	17.8	18.0	18.7	17.4	15.7	17.0	17.3

TABLE 100 (cont.)

BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 10

				Pe	ercentage	e who ha	d been o	drunk in I	ast 30 da	ays				
Approximate weighted N =	2006 16,200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	2011 14,900	2012 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	2017-2018 <u>change</u>
Total	18.8	18.1	14.4	15.5	14.7	13.7	14.5	12.8	11.2	10.3	9.0	8.9	8.4	-0.5
Gender:														
Male	19.1	18.9	14.6	16.4	15.5	14.9	15.4	13.2	11.1	10.3	8.4	7.6	8.2	+0.6
Female	18.4	17.4	14.3	14.8	13.7	12.4	13.5	12.4	11.5	10.3	9.6	10.1	8.6	-1.6
College Plans:														
None or under 4 years	29.0	28.9	25.2	26.8	27.0	23.8	23.1	18.5	20.9	16.3	13.9	13.4	11.8	-1.6
Complete 4 years	17.5	16.8	13.2	14.4	13.3	12.6	13.7	12.3	10.3	9.7	8.5	8.3	7.9	-0.4
Region:														
Northeast	20.4	20.5	15.3	14.6	14.7	16.6	18.6	13.6	13.3	11.6	10.0	9.9	9.1	-0.8
Midwest	19.8	19.6	16.0	15.0	15.3	11.9	12.8	11.4	9.7	9.5	8.4	8.1	8.2	+0.1
South	17.6	16.3	14.9	16.6	14.5	14.0	15.0	13.9	11.6	11.4	9.2	8.5	8.7	+0.2
West	17.9	16.9	11.8	15.5	14.3	13.0	12.1	12.4	10.7	7.9	8.4	9.6	7.6	-2.0
Population Density:														
Large MSA	17.7	16.3	12.7	15.3	14.2	12.9	14.9	12.8	11.3	10.0	9.3	11.1	9.4	-1.7
Other MSA	19.0	18.5	14.8	15.3	14.8	14.1	13.7	13.0	10.8	9.9	7.9	7.4	8.1	+0.7
Non-MSA	20.0	20.0	16.4	16.4	15.1	14.0	15.7	12.6	12.3	11.6	11.5	9.2	7.7	-1.5
Parental Education: a														
1.0-2.0 (Low)	18.4	17.7	16.9	19.7	18.2	13.6	15.7	15.1	12.0	8.5	8.5	8.4	8.5	+0.1
2.5-3.0	21.6	19.9	15.0	17.6	16.4	15.8	14.9	13.6	11.5	11.4	8.9	8.0	8.1	+0.1
3.5-4.0	19.9	19.1	15.7	16.4	14.3	14.8	14.7	13.4	12.9	11.3	9.4	9.3	8.4	-1.0
4.5-5.0	17.4	16.8	13.3	13.8	13.9	12.1	15.0	12.1	10.4	10.0	8.7	8.9	7.8	-1.1
5.5-6.0 (High)	17.6	17.7	14.2	14.6	13.2	13.1	14.6	12.3	11.3	9.8	10.8	10.7	10.9	+0.2
Race/Ethnicity (2-year average): b														
White	20.9	21.3	19.2	17.0	16.4	15.6	16.0	15.4	14.1	12.8	11.7	11.3	11.0	-0.3
African American	7.8	8.3	8.0	8.4	9.3	8.3	7.6	7.2	5.5	5.3	4.8	3.7	3.1	-0.6
Hispanic	16.6	15.0	14.0	14.9	15.7	13.8	12.5	13.1	11.6	10.0	8.5	7.8	7.7	-0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 101 BEEN DRUNK:** Trends in <u>30-Day</u> Prevalence by Subgroups in <u>Grade 12</u>

						Percer	tage who	o had be	en drunl	k in last 3	30 days					
	1975-	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2002	2004	2005
A	<u>1990</u>										2000		2002	2003		2005
Approximate weighted N =	_	15,000		16,300	15,400 30.8	15,400 33.2	14,300 31.3	15,400	15,200 32.9	13,600 32.9	12,800 32.3	12,800 32.7	12,900 30.3	14,600 30.9		14,700 30.2
Total Gender:	_	31.6	29.9	28.9	30.6	33.2	31.3	34.2	32.9	32.9	32.3	32.1	30.3	30.9	32.5	30.2
Male		37.1	35.2	34.5	34.5	37.8	35.4	39.2	39.0	37.9	38.4	37.0	34.3	34.9	36.0	33.6
Female		25.4	24.5	23.5	34.5 26.8	28.8	27.3	29.1	26.6	37.9 27.7	26.7	28.4	26.9	26.9	29.0	26.4
College Plans:	_	25.4	24.5	23.3	20.0	20.0	21.5	25.1	20.0	21.1	20.7	20.4	20.9	20.9	25.0	20.4
None or under 4 years	_	32.2	31.4	32.6	32.2	37.6	31.4	38.1	33.7	36.1	35.0	36.3	31.7	37.6	34.7	34.3
Complete 4 years		30.9	29.2	27.4	29.4	31.4	31.0	32.3	32.0	31.7	30.6	31.3	29.3	28.7	31.2	28.5
Region:		00.0	25.2	27.7	20.4	51.4	51.0	02.0	02.0	51.7	55.0	01.0	20.0	20.7	01.2	20.0
Northeast	_	36.4	30.0	35.0	35.2	35.5	37.2	35.9	35.6	37.5	39.3	33.9	33.6	35.4	38.1	38.7
Midwest	_	37.2	38.2	32.5	34.1	38.2	31.5	33.7	34.8	33.4	34.8	39.2	35.0	34.9	34.2	31.3
South	_	26.5	25.2	26.4	29.1	31.2	31.0	34.5	30.1	30.8	26.5	28.8	28.4	25.9	29.3	26.9
West	_	28.5	26.6	23.2	25.4	27.1	24.7	32.7	33.5	32.2	32.8	28.8	25.0	30.1	29.5	26.5
Population Density:																
Large MSA	_	30.4	26.1	29.4	28.7	32.0	31.5	31.5	32.2	29.2	30.5	30.6	32.9	25.4	27.4	28.2
Other MSA	_	33.5	29.8	26.9	29.9	31.7	33.0	33.7	34.0	35.4	34.5	31.7	29.1	33.5	37.3	31.5
Non-MSA	_	29.4	33.7	32.0	34.4	36.9	28.2	38.2	31.4	32.5	30.5	36.7	29.2	33.2	29.1	29.9
Parental Education: a																
1.0-2.0 (Low)	_	20.4	20.5	23.6	25.7	25.4	18.8	23.7	24.6	20.8	28.4	22.2	20.0	25.6	25.5	22.0
2.5–3.0	_	30.2	30.0	26.4	30.3	30.0	27.4	31.5	28.0	30.5	33.1	32.2	27.0	28.7	32.3	29.9
3.5-4.0	_	31.0	31.3	29.2	29.9	34.4	31.1	32.7	34.1	34.0	31.2	32.0	32.4	30.6	35.1	31.3
4.5-5.0	_	34.4	29.4	32.8	33.5	36.5	35.8	37.7	36.0	32.8	31.9	36.1	31.0	33.3	33.7	31.3
5.5-6.0 (High)	_	40.5	34.3	30.4	30.7	34.9	34.6	39.8	39.9	40.6	35.5	33.6	34.5	33.4	32.6	32.2
Race/Ethnicity (2-year average): b																
White	_	_	34.7	33.6	34.0	36.4	36.6	37.7	39.3	37.8	37.0	37.7	36.6	35.6	36.4	36.5
African American	_	_	11.0	12.5	14.1	13.2	13.0	13.8	13.8	14.9	14.9	12.0	12.1	11.7	14.3	15.4
Hispanic	_	_	27.2	24.8	23.0	24.2	26.2	26.9	25.9	27.5	29.8	25.5	23.5	23.9	24.1	22.2

TABLE 101 (cont.)

BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 12

				Pe	rcentage	who ha	d been o	drunk in I	ast 30 da	ays				
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	2017-2018 <u>change</u>
Approximate weighted N =	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	30.0	28.7	27.6	27.4	26.8	25.0	28.1	26.0	23.5	20.6	20.4	19.1	17.5	-1.6
Gender:														
Male	32.9	31.7	29.2	32.7	31.2	27.5	30.6	29.1	24.9	21.1	22.1	20.4	19.0	-1.4
Female	26.3	25.7	26.2	22.5	21.8	22.0	24.8	22.7	22.4	19.6	19.1	18.1	16.2	-1.9
College Plans:														
None or under 4 years	37.2	30.6	32.0	31.0	32.9	27.9	29.6	28.9	25.3	21.2	23.8	21.7	17.1	-4.6
Complete 4 years	27.6	28.2	26.4	25.9	24.8	24.1	27.3	25.0	22.6	20.3	19.4	18.6	17.6	-0.9
Region:														
Northeast	37.9	32.6	31.1	36.3	32.4	31.5	34.7	30.1	28.6	25.1	21.8	25.3	20.7	-4.6
Midwest	32.2	32.0	31.2	29.4	28.9	27.5	29.6	26.8	25.9	20.3	22.8	17.7	18.0	+0.3
South	27.4	26.5	25.5	23.6	24.9	21.5	22.2	21.7	21.0	18.4	17.6	17.8	15.4	-2.4
West	25.2	26.0	24.1	23.5	23.4	23.3	29.3	28.3	21.4	21.3	22.1	18.4	18.3	-0.1
Population Density:														
Large MSA	30.4	29.8	31.4	29.8	26.6	23.8	30.7	25.6	22.5	22.9	21.1	19.7	18.4	-1.4
Other MSA	29.0	27.6	25.0	25.9	26.8	26.9	28.0	28.1	25.2	18.1	20.4	17.3	16.4	-0.9
Non-MSA	31.4	29.4	28.8	27.8	27.2	22.3	24.1	21.1	20.7	22.6	19.4	21.9	18.6	-3.3
Parental Education: a														
1.0-2.0 (Low)	27.7	19.7	26.7	19.8	22.4	19.1	19.7	25.7	18.7	14.0	13.9	15.8	9.5	-6.3 s
2.5–3.0	29.5	31.6	25.3	29.0	25.4	22.9	26.6	24.8	25.2	21.4	19.3	15.7	16.0	+0.3
3.5-4.0	31.0	26.8	28.2	28.2	28.6	26.3	29.5	25.6	21.7	22.4	21.8	20.0	16.8	-3.2
4.5–5.0	29.7	28.4	30.0	27.0	26.5	25.6	29.7	27.9	25.9	21.8	21.5	19.7	19.1	-0.6
5.5-6.0 (High)	30.1	33.0	27.8	29.0	26.5	27.5	30.5	27.1	25.8	21.1	23.4	24.1	27.5	+3.3
Race/Ethnicity (2-year average): b														
White	35.2	33.7	32.7	31.8	31.6	29.9	29.7	30.6	29.0	26.4	25.0	24.2	23.1	-1.1
African American	13.5	14.6	14.8	15.1	14.7	14.2	14.3	13.4	15.1	13.8	9.9	10.1	10.9	+0.7
Hispanic	23.1	24.0	22.2	21.7	20.5	20.0	21.2	22.7	19.5	16.0	17.2	16.8	13.1	-3.8 sss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 102

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

				Pe	rcentage	reportin	g 5+ drir	ıks in a r	ow on or	ne or mo	re occas	ions			
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	10.9	11.3	11.3	12.1	12.3	13.3	12.3	11.5	13.1	11.7	11.0	10.3	9.8	9.4	8.4
Gender:															
Male	12.1	11.6	12.4	13.2	12.5	14.1	13.0	12.1	14.0	11.7	11.5	10.4	10.2	8.8	8.2
Female	9.6	10.8	10.3	11.1	12.1	12.4	11.5	10.8	12.0	11.3	10.2	10.0	9.4	9.9	8.6
College Plans:															
None or under 4 years	21.1	23.0	25.7	25.3	25.0	26.1	26.5	26.7	30.2	25.0	24.7	24.7	23.2	21.2	21.0
Complete 4 years	9.3	9.7	9.4	10.5	10.8	11.3	10.7	9.8	11.2	10.1	9.4	9.0	8.4	8.2	7.2
Region:															
Northeast	8.6	8.8	8.1	10.9	11.1	12.8	10.9	9.7	12.4	11.5	10.5	8.4	7.8	8.1	6.0
Midwest	11.5	12.5	10.9	11.5	12.2	13.5	12.0	12.4	15.5	13.2	10.8	10.5	10.8	10.1	8.7
South	11.9	12.3	12.9	12.4	13.0	13.7	13.2	11.9	13.3	11.0	12.5	11.4	10.6	9.6	9.8
West	10.2	10.4	12.8	13.8	12.3	12.9	12.3	11.6	10.3	10.9	9.0	9.9	9.0	9.5	8.0
Population Density:															
Large MSA	10.6	10.4	8.6	10.4	10.3	12.2	11.3	10.1	11.0	10.6	9.2	8.3	8.8	8.7	8.0
Other MSA	10.5	11.7	12.3	13.1	12.2	13.7	12.1	10.9	12.1	10.5	11.0	10.8	8.9	9.3	8.3
Non-MSA	12.0	11.7	12.9	12.1	15.0	14.2	13.9	14.3	17.4	15.3	13.1	11.8	12.9	10.5	9.2
Parental Education: a															
1.0-2.0 (Low)	18.3	17.8	16.3	16.8	20.1	16.9	17.6	16.5	20.8	18.9	16.5	16.6	16.3	14.9	14.4
2.5–3.0	12.6	13.4	13.3	14.2	14.8	15.4	13.5	13.8	17.0	15.3	14.3	12.8	13.5	12.1	10.7
3.5-4.0	10.7	11.3	11.5	12.5	13.3	14.3	14.2	12.4	14.0	11.0	11.7	11.1	10.5	10.0	9.4
4.5–5.0	8.8	8.7	8.5	10.3	9.3	11.1	10.3	9.3	9.5	8.2	8.1	7.9	6.7	8.0	6.4
5.5–6.0 (High)	8.8	8.4	8.9	9.1	8.7	10.7	9.0	9.4	9.2	9.5	6.6	7.3	6.8	6.2	5.0
Race/Ethnicity (2-year average): b															
White	_	11.2	10.9	11.1	12.1	13.2	13.3	12.3	12.6	13.0	11.9	10.9	10.0	9.6	9.0
African American	_	6.5	7.6	8.6	8.3	8.0	7.5	6.9	7.7	7.3	6.4	7.1	7.5	6.9	6.1
Hispanic	_	16.5	17.7	18.9	18.4	17.5	17.4	16.9	17.4	16.0	14.4	14.4	13.8	13.2	12.1

TABLE 102 (cont.)

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

			Pe	rcentage	reportin	g 5+ drin	ıks in a r	ow on or	ne or mo	re occas	ions			
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	8.7	8.3	8.1	7.8	7.2	6.4	5.1	5.1	4.1	4.6	3.4	3.7	3.7	0.0
Gender:														
Male	8.6	8.2	8.1	7.8	6.5	6.1	4.6	4.5	3.5	4.6	3.2	3.1	3.3	+0.2
Female	8.5	8.2	8.0	7.7	7.8	6.5	5.5	5.7	4.6	4.6	3.6	4.2	3.9	-0.3
College Plans:														
None or under 4 years	19.3	21.5	21.3	19.1	17.6	15.6	15.3	14.2	9.9	10.5	7.7	8.3	8.9	+0.6
Complete 4 years	7.6	7.1	7.0	6.8	6.3	5.7	4.4	4.5	3.7	4.1	3.0	3.2	2.9	-0.2
Region:														
Northeast	7.8	5.6	7.1	8.2	6.2	3.7	4.3	4.2	3.3	3.6	2.5	2.8	2.9	+0.2
Midwest	8.8	7.5	8.2	7.0	6.5	6.1	2.6	4.1	3.4	3.8	2.7	3.1	2.9	-0.1
South	9.7	9.4	9.7	8.8	8.4	7.1	6.3	6.4	4.7	5.4	4.3	3.9	3.6	-0.3
West	7.6	8.9	6.3	6.6	6.6	8.0	6.1	4.8	4.5	4.8	3.2	4.7	5.1	+0.3
Population Density:														
Large MSA	8.1	7.4	8.1	6.4	6.5	5.8	4.5	4.9	4.0	4.3	2.7	3.5	3.7	+0.2
Other MSA	8.3	8.5	7.9	8.2	7.6	6.6	5.6	5.0	4.0	4.6	3.4	3.5	3.7	+0.2
Non-MSA	10.2	9.2	8.4	8.9	7.0	7.0	5.1	5.8	4.5	5.3	4.6	4.4	3.4	-0.9
Parental Education: a														
1.0–2.0 (Low)	13.3	15.5	17.0	15.2	12.0	11.0	9.5	9.5	5.7	7.5	6.2	6.2	5.9	-0.3
2.5–3.0	10.6	10.5	10.5	9.5	9.3	8.8	7.6	6.7	5.4	5.8	4.6	5.1	4.7	-0.3
3.5–4.0	9.9	9.2	7.9	8.7	8.0	7.2	5.3	6.4	4.9	4.9	2.8	3.7	3.7	0.0
4.5–5.0	6.7	5.5	5.7	5.3	5.7	4.6	3.8	3.0	3.4	3.1	3.1	2.9	2.6	-0.3
5.5–6.0 (High)	5.9	5.0	4.7	4.7	4.3	4.1	2.0	3.9	3.0	3.6	2.3	2.5	2.5	0.0
Race/Ethnicity (2-year average): b														
White	8.4	8.0	7.8	7.7	7.1	6.2	4.9	4.2	4.2	4.0	3.6	3.0	2.9	-0.1
African American	5.7	5.6	5.7	5.2	5.3	5.1	4.3	4.5	4.4	4.1	3.4	2.9	2.6	-0.3
Hispanic	11.6	12.5	12.3	11.5	10.8	10.4	9.9	7.8	5.7	5.4	5.3	4.9	5.2	+0.3

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001, '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 103

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

				Pe	rcentage	reportin	g 5+ drir	nks in a r	ow on o	ne or mo	re occas	ions				
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	21.0	19.1	21.0	21.9	22.0	22.8	23.1	22.4	23.5	24.1	22.8	20.3	20.0	19.9	19.0	
Gender:																
Male	24.1	21.5	24.1	26.4	24.1	25.1	26.3	24.7	27.4	27.6	26.1	21.6	21.1	21.6	19.9	
Female	18.1	17.0	17.7	17.3	19.7	20.4	20.1	20.4	20.0	20.6	19.7	19.0	19.0	18.1	17.9	
College Plans:																
None or under 4 years	30.5	28.6	31.8	34.1	34.5	35.7	36.9	35.7	36.5	36.7	37.2	31.0	31.5	29.6	31.3	
Complete 4 years	19.1	17.2	18.8	19.3	19.8	20.7	20.8	20.2	21.5	22.2	20.5	18.5	18.2	18.6	17.3	
Region:																
Northeast	23.7	18.0	21.1	19.9	20.3	22.3	21.8	24.1	26.0	23.8	20.7	19.5	21.5	23.8	21.0	
Midwest	21.7	19.8	22.0	23.0	23.3	23.4	22.4	22.2	25.0	26.2	24.8	20.3	19.9	16.7	18.8	Table continued on nex
South	20.8	18.9	20.4	22.9	22.4	23.5	23.4	23.1	22.1	22.5	22.1	19.7	19.1	20.1	18.6	
West	18.6	19.8	20.0	20.4	21.1	21.4	25.3	19.9	21.7	24.6	23.1	22.2	20.1	19.6	17.6	
Population Density:																
Large MSA	20.2	17.5	19.1	17.6	18.4	20.5	20.4	18.3	22.4	24.0	20.8	17.6	18.0	16.9	17.4	
Other MSA	20.4	18.1	19.2	22.7	22.1	23.0	22.9	22.0	22.7	23.4	21.7	20.4	19.9	21.6	19.4	
Non-MSA	22.9	22.8	25.8	24.6	25.9	25.3	26.6	28.0	26.7	25.7	27.2	23.8	23.4	20.1	20.3	
Parental Education: a																
1.0-2.0 (Low)	23.2	23.0	24.3	22.6	26.7	24.7	22.7	24.1	25.2	24.7	23.0	23.9	24.4	23.0	21.0	
2.5-3.0	23.8	20.0	23.4	23.4	24.7	25.5	23.5	25.5	26.3	27.0	24.6	22.5	21.8	21.9	21.3	
3.5-4.0	19.9	19.2	20.6	23.3	22.8	23.7	24.6	22.8	23.6	23.8	24.2	20.7	20.5	20.4	18.9	
4.5-5.0	19.3	18.1	18.6	20.2	20.2	20.3	21.6	20.1	21.3	23.3	21.5	17.7	17.8	18.2	17.9	
5.5-6.0 (High)	20.9	18.4	18.9	18.5	17.3	22.4	22.4	20.1	23.6	23.1	21.2	18.7	18.4	19.0	17.9	
Race/Ethnicity (2-year average): b																
White	_	21.6	21.4	22.9	23.8	24.5	25.2	25.3	25.4	26.2	25.6	23.6	22.5	22.2	21.8	
African American	_	12.3	11.9	11.8	11.1	9.4	10.0	10.6	10.7	10.8	10.3	10.0	9.8	9.7	9.1	
Hispanic	_	20.3	20.5	20.9	23.3	25.7	24.4	23.6	24.4	25.1	24.8	23.3	22.9	23.3	22.4	

TABLE 103 (cont.)

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

<u>.</u>			Pe	rcentage	reportin	g 5+ drin	ks in a r	ow on or	ne or mo	re occas	ions			
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15,000		13,000	15,600		13.500	14.300	onango
Total	19.9	19.6	16.0	17.5	16.3	14.7	15.6	13.7	12.6	10.9	9.7	9.8	8.7	-1.1
Gender:	10.0	13.0	10.0	17.5	10.5	14.7	10.0	10.7	12.0	10.5	5.1	3.0	0.7	-1.1
Male	21.0	20.9	16.6	18.8	17.9	16.5	16.4	14.7	13.1	11.3	9.6	9.0	9.1	0.0
Female	18.9	18.3	15.4	16.1	14.6	12.7	14.8	12.5	12.2	10.6	9.8	10.5	8.3	-2.3 ss
College Plans:														
None or under 4 years	30.8	30.7	29.1	29.9	30.5	27.1	25.9	21.7	24.3	18.3	16.4	15.0	14.0	-1.0
Complete 4 years	18.6	18.2	14.4	16.1	14.6	13.4	14.6	12.8	11.4	10.1	9.0	9.1	7.9	-1.2
Region:														
Northeast	21.2	20.4	16.8	16.4	15.2	16.8	19.5	14.5	13.8	11.9	9.4	9.8	9.0	-0.8
Midwest	20.0	20.7	16.5	17.2	16.2	13.0	13.8	12.3	11.4	9.7	9.2	8.5	7.6	-1.0
South	19.1	18.4	16.3	18.4	16.7	15.4	16.2	15.0	13.3	11.9	10.4	9.7	9.6	-0.1
West	20.1	19.5	14.4	17.4	16.9	14.1	13.2	12.8	11.9	9.6	9.6	11.3	8.1	-3.1 s
Population Density:														
Large MSA	19.2	17.9	14.5	16.7	16.0	14.3	15.9	13.7	12.3	11.0	10.2	12.2	9.4	-2.8 s
Other MSA	19.7	19.6	16.0	17.0	16.5	14.7	14.8	13.7	12.4	10.3	8.7	8.2	8.1	-0.1
Non-MSA	21.9	22.5	18.1	19.8	16.7	15.4	16.6	13.7	13.8	12.4	11.8	10.0	8.7	-1.3
Parental Education: a														
1.0-2.0 (Low)	19.8	22.0	20.6	25.7	22.8	17.6	20.5	17.8	15.4	13.9	10.5	11.7	11.2	-0.5
2.5–3.0	22.8	22.6	17.8	19.6	19.5	17.1	17.3	15.1	14.0	11.9	10.8	9.4	9.5	+0.1
3.5-4.0	21.2	20.7	16.6	18.4	16.3	15.8	15.0	13.6	13.7	12.1	10.0	10.9	8.5	-2.4 s
4.5–5.0	18.1	17.7	14.7	14.7	14.1	12.7	15.4	12.5	10.7	10.1	9.2	9.2	7.2	-2.0 s
5.5–6.0 (High)	19.0	17.2	12.8	14.8	13.1	12.3	14.7	12.1	11.6	9.6	10.0	9.9	9.4	-0.6
Race/Ethnicity (2-year average): b														
White	21.7	21.8	19.7	17.9	17.2	16.1	16.3	15.7	14.4	13.0	11.6	11.0	10.5	-0.5
African American	9.1	10.0	9.8	9.8	10.7	9.4	8.2	8.6	7.5	6.9	5.8	4.7	3.9	-0.8
Hispanic	21.2	20.1	19.6	20.6	22.2	19.7	17.1	16.9	15.0	13.2	11.4	11.3	10.8	-0.6

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 104

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

					Percen	tage rep	orting 5+	drinks in	a row or	n one or	more occ	casions				
	<u>1975</u>	<u>1976</u>	<u>1977</u>	1978	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	1983	1984	1985	<u>1986</u>	1987	1988	1989	<u>1990</u>
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	36.8	37.1	39.4	40.3	41.2	41.2	41.4	40.5	40.8	38.7	36.7	36.8	37.5	34.7	33.0	32.2
Gender:																
Male	49.0	47.9	50.0	51.4	51.9	52.1	51.6	49.8	50.4	47.5	45.3	46.1	46.1	43.0	41.2	39.1
Female	26.4	25.9	29.3	29.6	30.9	30.5	30.8	31.1	31.0	29.6	28.2	28.1	29.2	26.5	24.9	24.4
College Plans:																
None or under 4 years	_	41.8	44.7	44.3	44.5	46.3	46.7	45.7	44.9	43.5	41.6	41.3	42.7	38.5	38.2	35.8
Complete 4 years	_	31.5	33.9	35.9	37.7	36.9	37.4	36.5	37.2	34.6	33.0	34.1	35.0	32.8	30.5	30.3
Region:																
Northeast	43.0	40.8	40.0	43.5	47.4	48.0	49.3	43.3	42.2	42.9	42.4	37.1	37.2	34.3	33.3	37.2
Midwest	40.6	42.8	44.5	45.3	44.8	45.4	44.9	47.9	47.2	44.3	39.7	42.6	43.5	39.9	40.4	37.9
South	32.1	30.8	36.3	36.4	36.7	34.4	34.7	34.6	37.6	33.5	29.7	31.7	33.4	30.4	28.5	27.2
West	29.0	32.8	34.2	33.3	34.0	36.0	35.6	32.5	33.3	34.5	36.1	35.9	36.6	35.4	30.8	26.3
Population Density:																
Large MSA	37.9	37.0	38.1	39.5	42.2	44.8	43.4	40.9	38.8	37.9	37.6	36.4	34.8	32.5	28.8	34.5
Other MSA	36.1	36.8	39.5	40.1	40.8	38.9	39.5	39.7	41.0	37.3	35.4	35.5	38.6	35.3	33.7	31.8
Non-MSA	36.9	38.0	40.5	41.3	40.9	41.4	42.2	41.3	42.0	41.2	37.6	39.1	38.3	35.9	35.8	30.6
Parental Education: a																
1.0-2.0 (Low)	31.6	34.1	35.6	36.3	36.0	37.0	37.0	35.3	37.2	34.8	31.8	31.7	33.9	30.7	25.4	25.3
2.5-3.0	37.5	41.1	41.8	40.9	42.3	43.3	43.2	41.4	41.2	39.8	38.2	37.9	38.9	35.7	34.0	32.7
3.5-4.0	35.1	36.4	39.5	41.3	41.4	42.1	42.4	42.4	40.9	39.3	36.9	37.9	38.3	34.7	34.3	32.0
4.5-5.0	34.4	36.9	37.2	42.4	43.8	40.8	40.8	41.9	41.9	38.6	37.1	37.1	37.2	35.1	34.2	34.5
5.5-6.0 (High)	29.9	34.5	41.1	37.2	41.9	38.5	39.3	40.9	42.1	38.2	34.9	36.7	37.2	34.7	31.8	34.1
Race/Ethnicity (2-year avera	age): <sup>b</sup>															
White	_	_	40.5	42.4	43.5	44.3	44.9	44.9	44.5	43.6	41.5	40.3	40.9	40.0	37.9	36.6
African American	_	_	19.0	19.3	18.9	17.7	17.1	17.1	18.3	17.2	15.7	16.4	15.8	15.2	15.7	14.4
Hispanic	_	_	36.4	37.2	33.6	33.1	34.8	32.9	32.5	33.0	31.7	30.8	33.0	33.7	28.8	25.6

TABLE 104 (cont.)

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

				Pe	rcentage	reportin	g 5+ drin	ks in a ro	ow on one	e or more	occasio	ns			
A	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	2005°
Approximate weighted N =		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	29.8	27.9	27.5	28.2	29.8	30.2	31.3	31.5	30.8	30.0	29.7	28.6	27.9	29.2	27.1
Gender:															
Male	37.8	35.6	34.6	37.0	36.9	37.0	37.9	39.2	38.1	36.7	36.0	34.2	34.2	34.3	32.6
Female	21.2	20.3	20.7	20.2	23.0	23.5	24.4	24.0	23.6	23.5	23.7	23.0	22.1	24.2	21.6
College Plans:															
None or under 4 years	34.4	32.8	32.7	34.0	35.2	33.9	36.2	36.3	35.4	35.7	35.9	34.0	34.5	34.6	34.3
Complete 4 years	27.9	26.0	25.8	26.3	27.8	28.8	29.5	30.0	29.5	27.6	27.8	27.2	25.9	27.6	25.1
Region:															
Northeast	33.4	25.8	30.3	29.2	31.2	33.7	33.5	33.5	33.7	35.1	31.8	30.7	30.9	33.2	32.2
Midwest	34.6	34.6	30.1	31.9	34.3	31.5	31.6	32.6	31.6	33.9	34.5	33.4	32.5	30.2	29.1
South	26.3	24.7	27.1	26.9	28.6	30.2	30.6	30.7	30.0	24.9	26.6	26.8	23.7	26.1	24.2
West	26.3	26.0	22.0	24.5	24.2	24.0	29.6	29.5	28.6	29.3	26.0	23.9	26.5	28.6	24.5
Population Density:															
Large MSA	28.6	25.5	27.6	26.8	28.3	29.8	29.9	27.9	27.1	29.7	29.0	29.9	23.3	25.5	26.5
Other MSA	30.1	27.0	26.5	27.1	28.4	30.3	31.1	33.1	32.2	29.3	29.0	28.0	29.8	31.9	27.4
Non-MSA	30.4	31.9	29.2	31.5	34.0	30.5	33.2	32.4	32.4	31.7	31.9	28.2	30.5	28.2	27.0
Parental Education: a															
1.0-2.0 (Low)	26.8	23.4	21.9	24.0	26.6	24.8	22.6	26.3	27.4	25.1	24.8	22.2	23.5	22.9	19.4
2.5-3.0	29.9	28.1	27.6	28.5	31.2	28.6	30.4	30.3	30.8	29.2	30.2	28.5	27.6	28.8	28.3
3.5-4.0	30.4	27.9	28.4	28.4	29.5	29.8	31.0	33.2	30.5	30.5	30.3	28.6	28.4	30.9	27.6
4.5-5.0	29.9	28.1	28.4	29.3	29.9	32.4	32.4	32.3	30.6	29.9	30.9	30.9	28.6	30.5	29.4
5.5-6.0 (High)	30.6	30.4	29.0	29.0	30.7	33.1	34.9	32.4	34.2	32.7	28.6	30.6	28.7	27.8	25.2
Race/Ethnicity (2-year avera	ige): <sup>b</sup>														
White	34.6	32.1	31.3	31.5	32.3	33.4	35.1	36.4	35.7	34.6	34.5	33.7	32.4	32.5	32.5
African American	11.7	11.3	12.6	14.4	14.9	15.3	13.4	12.3	12.3	11.5	11.8	11.5	10.8	11.4	11.3
Hispanic	27.9	31.1	27.2	24.3	26.6	27.1	27.6	28.1	29.3	31.0	28.4	26.4	25.9	26.0	23.9

TABLE 104 (cont.)

BINGE DRINKING: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

-			Pe	rcentage	reporting	g 5+ drin	ks in a ro	w on one	e or more	e occasio	ns			
	2006°	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	25.4	25.9	24.6	25.2	23.2	21.6	23.7	22.1	19.4	17.2	15.5	16.6	13.8	-2.8 ss
Gender:														
Male	28.9	30.7	28.4	30.5	28.0	25.5	27.2	26.1	22.3	19.3	17.2	18.5	15.9	-2.6
Female	21.5	21.5	21.3	20.2	18.4	17.6	19.7	18.1	16.6	14.9	13.5	14.6	11.9	-2.7 s
College Plans:														
None or under 4 years	32.3	30.8	31.5	31.3	32.1	27.4	27.5	29.2	24.0	21.5	18.2	20.7	16.5	-4.2 s
Complete 4 years	23.7	24.7	23.2	23.8	21.2	20.4	22.6	20.6	18.3	16.4	14.7	15.8	12.9	-2.9 ss
Region:														
Northeast	30.9	29.7	27.3	28.9	28.7	26.1	29.0	26.6	22.3	21.3	18.0	18.7	15.2	-3.6
Midwest	26.5	28.9	25.2	28.8	24.6	24.3	24.8	22.7	20.4	16.7	16.0	15.7	13.5	-2.2
South	23.9	25.4	24.7	23.1	21.0	18.8	19.6	18.6	17.9	16.4	14.6	16.9	14.0	-2.9
West	22.0	20.5	21.9	20.9	20.7	19.9	24.1	23.1	18.8	16.2	14.9	15.6	12.7	-2.9
Population Density:														
Large MSA	26.6	28.0	25.8	25.7	23.0	21.7	25.1	21.3	19.4	18.9	15.6	16.5	13.7	-2.8
Other MSA	25.0	24.2	22.5	24.1	23.6	22.5	23.3	23.3	20.1	15.3	15.2	14.7	12.4	-2.3
Non-MSA	24.5	26.4	28.1	27.2	22.4	19.6	22.4	20.5	17.9	19.3	16.2	21.2	17.1	-4.1 s
Parental Education: a														
1.0-2.0 (Low)	25.4	20.4	21.3	23.2	20.1	17.9	23.6	21.5	19.0	17.2	14.6	13.0	10.8	-2.3
2.5-3.0	25.8	27.3	23.0	24.6	24.6	21.1	23.9	23.1	20.1	17.1	13.9	15.5	12.7	-2.8
3.5-4.0	26.5	24.8	25.1	27.6	23.3	23.2	24.3	23.9	19.2	17.4	15.9	16.4	13.8	-2.6
4.5-5.0	24.0	27.5	26.2	24.4	24.2	21.4	23.6	21.4	20.7	17.9	16.5	18.2	15.0	-3.2 s
5.5-6.0 (High)	26.3	27.1	26.4	25.6	21.2	22.1	22.8	20.3	19.0	17.6	15.9	20.1	17.2	-2.9
Race/Ethnicity (2-year avera	ige): <sup>b</sup>													
White	30.4	29.7	29.9	29.0	27.6	25.9	25.7	25.6	23.8	21.2	19.1	19.6	19.4	-0.2
African American	11.4	11.5	10.9	12.0	13.1	11.3	11.3	12.5	11.3	9.8	8.3	7.7	7.4	-0.3
Hispanic	23.3	22.5	21.5	22.6	22.1	20.8	21.8	22.4	20.4	18.5	16.7	14.4	11.7	-2.7 sss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 105 EXTREME BINGE DRINKING:

# Trends in 2-Week Prevalence of Having 10 or More Drinks in a Row by Subgroups in <u>Grade 12</u>

															2017– 2018
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approx. weighted N =	14,700	14,200	14.500	14,000	13,700	13,700	13,700	13,600	12,600	12,400	12,900	11.800	12,600	13,300	onango
Total	10.6	12.9	11.1	10.4	10.6	9.9	9.8	10.4	8.1	7.1	6.1	4.4	6.0	4.6	-1.4
Gender															
Male	16.0	17.8	15.6	14.3	15.2	14.5	13.6	14.1	11.7	10.9	8.0	5.4	7.6	6.4	-1.2
Female	4.1	6.8	6.2	5.8	5.5	4.9	4.6	5.3	4.1	3.0	3.3	2.8	2.6	2.4	-0.2
College Plans															
None or under 4 years	14.0	19.4	14.3	16.4	13.4	15.4	14.9	10.9	11.0	10.3	10.4	7.1	7.8	8.5	+0.8
Complete 4 years	8.2	10.0	9.7	8.2	9.4	8.0	8.3	9.5	6.2	5.7	4.6	3.0	4.7	3.4	-1.3
Region															
Northeast	11.0	13.3	13.9	11.0	14.3	9.3	11.2	12.7	8.7	7.5	7.3	4.9	7.4	3.9	-3.4
Midwest	12.6	15.3	12.1	11.9	13.1	13.8	11.9	10.5	9.4	7.6	8.6	4.3	5.7	3.5	-2.2
South	10.3	14.2	11.1	10.3	9.6	9.5	9.3	9.0	6.3	7.6	5.1	4.1	6.0	5.5	-0.5
West	8.3	7.1	7.5	8.1	5.7	7.1	7.5	10.8	9.1	5.4	4.8	4.6	5.4	4.5	-1.0
Population Density															
Large MSA	9.2	12.6	9.5	10.4	9.5	10.0	10.7	12.5	8.2	5.9	6.9	4.8	7.1	3.8	-3.3 ss
Other MSA	9.1	12.7	12.2	8.6	10.2	9.0	9.4	8.8	8.8	7.0	4.7	2.5	4.4	4.3	-0.0
Non-MSA	15.1	13.8	10.9	14.3	13.0	11.9	9.7	11.2	6.4	9.0	8.5	8.4	7.8	6.6	-1.2
Parental Education <sup>a</sup>															
1.0-2.0 (Low)	6.8	15.8	6.0	10.6	8.8	7.8	9.4	14.9	9.1	6.9	3.0	3.3	6.3	5.6	-0.7
2.5–3.0	11.8	13.5	10.6	10.8	11.8	9.2	7.6	9.3	7.8	11.4	5.2	4.7	6.0	4.3	-1.7
3.5-4.0	10.7	11.4	11.1	8.0	10.8	10.4	10.0	9.9	8.5	4.9	7.2	4.4	3.7	4.5	+0.7
4.5–5.0	10.2	11.3	11.8	11.8	8.4	8.8	9.2	9.9	8.0	6.2	6.1	3.7	6.3	3.7	-2.6
5.5-6.0 (High)	6.4	10.7	11.2	8.0	9.0	7.1	10.2	9.6	2.7	6.6	5.2	2.4	4.9	4.9	+0.0
Race/Ethnicity (2-year average) b															
White	_	13.2	13.8	13.3	12.2	11.9	11.9	11.4	9.8	7.9	7.3	6.1	5.9	6.2	+0.3
African American	_	4.4	4.1	1.4	2.8	4.4	3.5	5.0	5.1	5.0	4.5	1.9	3.2	3.8	+0.6
Hispanic	_	9.6	8.8	6.7	9.0	8.0	6.8	7.1	8.1	8.0	5.4	3.5	3.0	3.6	+0.6

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. "—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table D-S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on 1 of 6 forms; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education reported on the following scale: (1) Completed grade school or less,

<sup>(2)</sup> Some high school, (3) Completed high school, (4) Some college, (5) Completed college, (6) Graduate or professional school after college. Missing data were allowed on one of the two variables.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 106 EXTREME BINGE DRINKING:

# Trends in 2-Week Prevalence of Having 15 or More Drinks in a Row by Subgroups in <u>Grade 12</u>

															2017– 2018
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approx. weighted N =	14,700	14,200	14,500	14,000	13,700	13,700	13,700	13,600	12,600	12,400	12,900	11,800	12,600	13,300	
Total	5.7	7.2	5.6	5.6	6.0	6.3	4.6	5.5	4.4	4.1	3.5	2.3	3.1	2.5	-0.7
Gender															
Male	8.5	10.7	8.3	8.7	8.8	9.4	6.4	7.1	6.4	6.4	4.9	3.6	4.4	3.0	-1.4
Female	1.8	2.9	2.7	2.1	3.0	2.3	1.9	2.1	1.7	1.2	1.5	1.0	0.7	0.9	+0.2
College Plans															
None or under 4 years	7.0	12.2	8.3	10.5	7.9	11.0	9.1	6.0	5.9	5.3	8.4	4.2	6.3	4.8	-1.5
Complete 4 years	4.1	5.1	4.5	4.1	5.3	4.6	3.3	4.6	2.9	3.1	2.0	1.7	2.0	1.6	-0.4
Region															
Northeast	5.6	5.5	6.0	4.7	6.6	5.7	4.3	5.1	5.5	4.0	3.8	1.7	2.2	1.7	-0.5
Midwest	7.1	8.9	6.7	6.5	8.2	9.6	6.8	5.9	4.9	4.2	4.2	2.8	2.3	1.0	-1.3
South	5.9	8.4	6.1	6.2	6.1	6.1	4.6	5.6	3.4	4.9	3.0	2.2	3.7	3.9	+0.2
West	4.1	4.3	3.5	4.1	2.4	3.9	2.7	5.2	4.4	2.6	3.6	2.5	3.6	2.0	-1.5
Population Density															
Large MSA	4.9	7.2	4.3	4.0	5.5	6.5	4.0	7.1	4.9	3.3	3.9	2.6	3.3	1.3	-2.0 s
Other MSA	5.5	6.6	6.4	4.2	5.4	5.8	4.3	4.2	4.5	4.5	3.0	1.6	2.6	2.2	-0.4
Non-MSA	7.4	8.1	6.0	10.5	7.8	7.2	6.3	6.3	3.3	4.2	4.3	3.5	4.2	5.2	+1.1
Parental Education <sup>a</sup>															
1.0-2.0 (Low)	5.5	8.0	5.7	7.9	5.6	6.6	6.3	9.7	4.3	4.9	1.9	1.6	2.6	4.1	+1.5
2.5–3.0	6.3	7.6	6.4	5.3	7.4	5.2	4.7	4.1	3.2	4.7	2.9	2.8	3.6	1.8	-1.8
3.5-4.0	4.0	6.1	5.6	4.6	6.1	6.6	5.5	4.2	5.2	3.4	4.0	2.3	2.7	2.1	-0.5
4.5–5.0	4.9	6.9	5.7	6.1	4.0	4.0	2.6	5.0	3.7	3.4	3.3	2.1	2.7	1.1	-1.6
5.5-6.0 (High)	4.1	4.7	2.7	2.6	4.2	4.9	3.8	5.2	0.6	3.6	2.4	0.7	0.9	3.2	+2.3
Race/Ethnicity (2-year average) <sup>b</sup>															
White	_	6.9	7.0	6.5	6.7	6.9	6.1	5.2	4.9	4.4	4.1	3.1	2.7	2.9	+0.2
African American	_	1.1	2.2	1.5	1.8	3.1	2.5	2.8	2.8	2.7	1.6	0.4	2.3	3.2	+0.9
Hispanic	_	5.6	5.8	5.1	5.0	4.3	4.4	4.5	4.6	3.8	2.9	2.8	1.8	1.3	-0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. "—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table D-S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on 1 of 6 forms; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education reported on the following scale: (1) Completed grade school or less,

<sup>(2)</sup> Some high school, (3) Completed high school, (4) Some college, (5) Completed college, (6) Graduate or professional school after college. Missing data were allowed on one of the two variables.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 107

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 30 days 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2005 Approximate weighted N = 17,500 18,600 18,300 17,300 17.500 17.800 18.600 18.100 16.700 16.700 16.200 15.100 16.500 17.000 16.800 Total 16.2 16.9 17.4 18.3 18.8 18.4 16.7 16.2 16.6 15.2 15.0 12.3 12.0 14.4 12.8 Gender: Male 19.1 12.2 12.9 18.6 19.1 21.2 20.4 19.9 18.6 17.7 19.4 16.8 16.5 12.4 14.0 Female 15.3 14.6 14.7 14.1 13.5 13.6 12.2 College Plans: None or under 4 years 26.4 27.7 32.2 32.8 36.0 33.0 33.9 32.6 35.5 29.6 32.9 27.4 28.7 26.4 26.3 Complete 4 years 11.5 14.6 15.4 15.6 16.6 16.8 16.3 14.6 14.4 14.3 13.8 12.9 11.1 10.2 13.1 Region: Northeast 14.0 14.0 14.9 19.3 21.7 18.4 18.5 18.7 10.8 11.4 18.6 14.7 14.2 12.3 15.1 Midwest 16.4 18.0 16.7 18.0 17.4 19.3 16.8 18.4 17.5 17.0 13.2 10.2 14.0 15.9 11.4 South 17.8 18.5 19.1 16.6 15.5 16.1 17.2 14.2 14.3 14.0 15.0 18.2 20.1 11.4 14.4 West 15.7 13.9 14.9 15.1 18.0 18.8 17.8 17.2 15.1 12.6 15.3 10.3 11.4 Population Density: Large MSA 15.0 18.7 15.1 15.2 12.0 16.2 15.0 13.8 14.3 14.0 12.0 11.5 11.0 14.2 11.4 Other MSA 16.1 16.8 17.6 19.4 19.1 19.6 15.9 14.3 16.5 14.1 15.5 12.4 11.9 13.9 13.6 Non-MSA 19.8 18.8 19.6 22.7 19.4 17.2 13.2 13.5 15.6 13.1 17.8 15.4 18.3 21.8 18.8 Parental Education: a 1.0-2.0 (Low) 22.0 19.7 23.7 22.6 22.5 21.5 24.4 23.9 21.6 21.9 25.4 23.2 21.3 24.1 17.1 2.5-3.0 18.2 18.4 19.5 22.8 21.2 17.4 19.7 20.7 18.4 14.8 15.1 17.8 15.8 19.7 21.3 3.5-4.0 15.7 18.0 19.4 19.7 19.6 20.2 18.5 17.9 16.9 13.5 18.1 13.5 14.3 15.0 13.9 4.5-5.0 13.4 14.9 15.3 15.6 17.8 12.7 12.6 12.3 12.0 10.0 8.4 7.4 11.9 5.5-6.0 (High) 17.2 14.2 13.2 14.1 17.0 16.0 9.7 10.3 10.2 13.3 13.5 14.6 14.4 11.4 6.7 Race/Ethnicity (2-year average): b White 13.5 14.0 16.7 17.6 17.9 19.0 19.7 18.8 17.4 17.4 16.8 15.5 12.0 13.5 African American 12.6 13.0 15.8 14.5 9.7 9.7 7.9 7.2 7.5 8.1 7.6 Hispanic 23.9 24.2 22.2 23.3 23.7 21.8 19.9 19.5 19.8 20.7 21.8 19.6 18.4 18.3

TABLE 107 (cont.)

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

	Percentage who used in last 30 days													
														2017-2018
Approximate weighted N =	2006 16 500	2007 16,100	2008 15,700	2009 15,000	2010 15,300	2011 16,000	2012 15,100	2013 14,600	2014 14,600	2015 14.400	2016 16,900	2017 15,300	2018 14,000	<u>change</u>
Total	12.5	12.2	11.8	10.0	10.6	9.8	7.9	6.8	6.3	7.3	4.7	5.7	6.8	+1.0
Gender:	12.5	12.2	11.0	10.0	10.0	3.0	1.5	0.0	0.5	1.5	4.7	3.1	0.0	+1.0
Male	13.0	11.3	12.3	10.6	11.3	10.2	8.5	6.9	6.9	8.1	4.9	5.3	6.3	+1.0
Female	11.9	12.2	11.2	9.2	10.1	9.2	7.2	6.6	5.8	6.5	4.7	6.3	7.5	+1.2
College Plans:	11.5	12.2	11.2	5.2	10.1	3.2	1.2	0.0	5.0	0.5	4.7	0.5	7.5	T1.Z
None or under 4 years	24.7	27.3	30.5	20.9	26.1	16.6	19.5	14.5	16.0	14.5	11.8	11.3	13.0	+1.7
Complete 4 years	11.4	10.8	10.3	9.0	9.4	9.4	7.0	6.3	5.6	6.8	4.3	5.1	6.1	+0.9
Region:	11.4	10.6	10.3	9.0	9.4	9.4	7.0	0.3	5.0	0.0	4.3	3.1	0.1	+0.9
Northeast	11.4	9.5	10.4	9.2	10.4	6.8	6.8	5.0	4.6	5.8	4.0	3.1	4.8	+1.7
Midwest	13.2	10.6	12.5	9.2 8.4	10.4	9.1	5.0	7.0	6.1	7.6	3.1			+1.7
												4.7	7.0	
South	13.3	14.0	14.1	12.2	12.2	10.5	8.8	8.2	6.4	7.8	6.3	6.4	7.1	+0.7
West	11.4	12.0	8.9	8.8	8.6	11.7	10.1	5.6	7.6	7.1	4.2	7.7	7.5	-0.2
Population Density:														
Large MSA	11.9	10.3	13.0	8.9	9.0	8.2	7.4	6.6	4.7	6.8	4.6	4.3	5.6	+1.3
Other MSA	12.1	12.3	11.3	9.5	10.9	9.9	8.6	7.5	6.5	7.5	4.3	5.8	8.0	+2.2 s
Non-MSA	14.3	14.6	11.3	12.5	12.3	12.0	6.9	5.9	8.1	7.5	6.2	7.7	5.7	-2.0
Parental Education: a														
1.0-2.0 (Low)	17.3	21.0	21.3	15.0	13.6	15.4	12.1	11.8	8.6	13.7	12.4	10.1	9.5	-0.7
2.5–3.0	16.8	19.5	16.7	13.2	14.6	12.5	9.6	8.3	8.8	8.5	6.2	6.3	9.8	+3.5 s
3.5–4.0	13.6	10.6	13.1	10.6	11.5	11.4	8.4	8.1	9.0	8.7	3.2	7.1	7.9	+0.8
4.5–5.0	9.4	9.3	8.8	8.6	8.8	7.5	6.3	6.1	4.1	4.6	4.4	5.2	5.9	+0.7
5.5-6.0 (High)	9.3	6.7	7.0	6.5	6.5	7.4	4.7	4.9	4.5	6.1	3.0	3.3	4.8	+1.5
Race/Ethnicity (2-year average): b														
White	12.7	11.5	11.5	11.2	10.7	10.2	8.2	6.8	6.4	6.5	5.4	4.6	5.8	+1.2 s
African American	8.5	9.0	7.4	6.3	5.6	5.9	5.8	4.2	3.3	3.7	4.1	3.9	3.1	-0.8
Hispanic	17.1	17.8	17.8	14.9	13.3	14.0	13.8	11.3	9.0	8.8	8.9	7.8	8.4	+0.6

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S1. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S1.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and

TABLE 108

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 30 days 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2005 Approximate weighted N = 14,80014,800 15,300 15,800 17,000 15.600 15.500 15.000 13.600 14.300 14.000 14.300 15.800 16.400 16.200 Total 31.1 28.9 28.7 30.2 29.9 30.5 30.4 28.3 29.5 30.6 28.0 24.6 23.2 26.5 24.8 Gender: Male 37.6 33.1 33.3 37.3 33.5 34.7 34.1 32.5 35.4 35.4 33.7 28.7 27.9 30.7 26.5 Female 24.2 24.3 23.8 22.9 20.9 23.1 College Plans: None or under 4 years 39.4 37.5 37.4 41.4 41.9 44 8 43.8 40.5 43.7 42.7 42.3 37.2 30.3 36.4 36.4 25.9 22.2 25.1 23.2 Complete 4 years 29.4 27.2 26.9 28.0 27.8 28.1 28.2 26.1 27.0 28.6 22.7 Region: Northeast 37.1 29.4 32.0 31.9 33.1 33.2 31.0 34.7 27.0 23.8 25.6 30.4 25.2 31.7 31.7 27.8 Midwest 31.7 29.4 29.1 31.6 31.1 30.4 30.1 29.8 33.1 29.0 25.6 23.3 22.1 26.2 South 29.4 28.4 26.6 29.5 30.6 28.5 27.2 27.8 27.1 26.6 22.6 21.9 27.2 23.6 29.4 West 28.7 27.5 28.1 28.1 30.6 27.6 22.6 24.4 28.4 27.3 31.1 26.6 32.6 Population Density: 28.8 Large MSA 31.0 30.1 28.9 23.9 28.9 28.8 24.3 29.3 30.1 25.5 22.5 21.6 23.4 21.8 Other MSA 28.9 27.4 26.4 30.8 30.3 30.1 31.2 28.9 29.4 29.8 26.2 24.7 22.9 27.0 25.2 Non-MSA 32.8 33.0 30.5 30.0 32.7 27.1 26.1 29.3 27.9 35.2 30.8 30.0 32.2 31.4 34.4 Parental Education: a 1.0-2.0 (Low) 27.7 33.3 29.3 22.4 28.9 33.5 30.0 34.0 28.9 28.6 26.5 26.7 26.7 26.3 28.7 2.5-3.0 32.0 28.4 32.3 27.2 28.6 24.1 29.1 30.3 31.1 33.0 31.1 30.3 30.9 30.8 30.3 3.5-4.0 31.4 29.9 29.0 31.3 30.1 30.9 31.3 30.0 29.5 32.3 29.0 25.1 24.3 26.2 23.8 4.5-5.0 27.7 28.0 30.3 28.5 29.0 31.4 25.0 27.4 32.4 27.7 22.7 21.9 26.4 24.4 5.5-6.0 (High) 28.1 27.1 26.5 33.7 30.7 26.5 31.1 28.7 30.4 21.9 21.0 24.2 21.7 27.4 Race/Ethnicity (2-year average): b White 28.7 27.0 27.5 28.2 31.7 30.2 31.1 32.1 32.5 32.4 31.9 32.2 33.1 31.7 African American 20.3 19.0 18.8 15.9 15.6 13.1 10.0 13.5 14.8 11.6 10.2 12.5 Hispanic 32.2 29.6 29.3 31.2 31.9 31.3 29.8 28.3 28.9 30.7 28.6 25.1 27.8 31.3

TABLE 108 (cont.)

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 30 days													
														2017-2018
Approximate weighted N =	2006 16 200	2007 16.100	2008 15.100	2009 15,900	2010 15,200	2011 14.900	2012 15,000	2013 12,900	2014 13,000	2015 15.600	2016 14.700	2017 13.500	2018 14.300	change
Total	26.8	24.4	22.4	22.6	22.4	19.6	19.6	18.4	17.3	15.7	13.0	14.0	14.1	+0.2
Gender:	20.0	24.4	22.4	22.0	22.4	19.0	19.0	10.4	17.3	15.7	13.0	14.0	14.1	+0.2
Male	29.2	26.8	24.5	25.2	26.3	23.0	22.1	21.0	19.2	16.3	13.4	13.6	16.1	+2.5
Female	24.0	21.8	20.6	19.8	18.4	16.1	17.3	15.7	15.8	15.2	12.3	14.4	12.3	+2.5 -2.0
	24.0	21.0	20.6	19.6	10.4	10.1	17.3	15.7	15.6	15.2	12.3	14.4	12.3	-2.0
College Plans:	20.0	20.0	20.4	20.0	20.0	04.0	07.0	00.0	00.0	04.0	00.0	00.4	40.5	2.0
None or under 4 years	39.2	39.2	38.1	38.0	36.9	31.0	27.6	26.9	28.6	24.9	23.6	20.4	16.5	-3.9
Complete 4 years	25.2	22.6	20.4	20.9	20.6	18.4	18.7	17.4	16.1	14.8	11.8	13.1	13.9	+0.7
Region:														
Northeast	31.4	27.3	24.9	23.3	22.3	22.9	23.6	19.7	20.2	17.2	15.2	15.6	15.2	-0.3
Midwest	25.5	24.7	23.0	21.3	21.3	16.6	16.6	14.1	13.8	13.7	10.7	11.3	11.6	+0.4
South	25.0	21.2	22.7	23.5	22.2	20.8	20.9	21.5	17.6	17.1	13.4	14.7	16.2	+1.6
West	27.2	25.8	19.7	21.8	23.8	19.0	17.6	17.7	18.0	14.2	12.9	14.5	12.5	-2.0
Population Density:														
Large MSA	25.5	24.6	21.7	22.1	22.0	18.3	21.6	16.3	16.7	15.3	14.9	15.8	14.9	-0.8
Other MSA	27.5	22.4	21.8	22.6	22.1	20.7	18.9	19.0	18.0	15.4	10.6	13.0	14.1	+1.1
Non-MSA	27.3	28.7	24.8	23.1	23.5	19.6	18.2	19.8	16.5	17.3	16.3	13.7	13.1	-0.7
Parental Education: a														
1.0-2.0 (Low)	27.8	28.9	29.2	26.8	30.4	25.9	23.1	20.6	23.7	19.1	12.5	15.4	17.9	+2.5
2.5–3.0	30.7	29.7	25.7	25.7	26.8	22.7	21.1	23.3	18.3	20.5	16.6	15.9	14.2	-1.7
3.5-4.0	28.4	25.4	23.5	22.8	23.3	20.6	18.8	18.0	18.4	16.7	13.0	14.9	13.0	-1.9
4.5–5.0	23.4	21.5	20.6	20.3	18.5	16.3	19.7	16.8	14.2	13.5	13.4	11.7	13.0	+1.3
5.5-6.0 (High)	26.0	20.5	17.3	20.0	18.8	17.0	19.9	16.8	18.7	14.6	10.4	13.8	16.3	+2.5
Race/Ethnicity (2-year average): b														
White	28.4	27.8	25.3	23.9	23.3	21.6	21.0	20.3	19.6	18.7	16.3	15.0	15.8	+0.8
African American	11.9	9.7	10.0	11.7	12.5	12.2	8.2	6.9	6.9	7.2	6.1	4.2	4.1	-0.1
Hispanic	30.7	29.3	28.2	28.0	29.9	28.3	24.4	23.3	20.5	18.2	16.0	16.0	17.5	+1.5

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S2. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S2.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and

TABLE 109

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						F	ercentaç	ge who u	sed in las	st 30 day	s					
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Approximate weighted N =	_	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	59.8	62.1	62.3	63.7	62.9	62.7	60.3	61.7	59.5	56.7	55.5	56.2	53.3	51.4	47.2
Gender:																
Male	_	68.6	73.1	73.0	74.0	74.3	71.4	68.3	69.7	67.4	64.5	64.3	64.9	61.8	59.7	55.7
Female	_	51.3	52.8	52.7	54.5	52.4	53.9	52.7	54.0	51.8	49.4	47.9	48.1	46.3	43.4	38.0
College Plans:																
None or under 4 years	_	62.1	64.6	65.2	65.7	68.3	65.0	64.6	62.4	62.7	59.8	54.2	58.2	57.3	55.5	46.5
Complete 4 years	_	57.6	60.3	59.5	61.6	58.4	61.0	57.4	61.1	57.4	55.1	55.7	55.1	51.8	49.4	47.5
Region:																
Northeast	_	64.9	65.9	64.7	71.9	67.6	67.1	65.7	68.3	62.6	64.4	51.5	56.8	54.8	54.2	52.7
Midwest	_	65.4	66.9	68.3	66.1	64.9	67.5	66.1	66.6	66.8	57.4	66.3	61.4	59.8	58.5	50.3
South	_	53.2	55.3	58.4	59.2	60.3	57.5	53.0	56.5	53.7	51.0	48.6	52.1	47.6	46.1	42.0
West	_	52.8	59.4	54.2	56.1	57.7	56.9	52.8	53.8	55.3	56.4	54.4	54.8	52.7	48.5	45.4
Population Density:																
Large MSA	_	62.5	64.2	62.8	65.3	67.7	63.8	63.3	63.1	58.8	56.0	55.1	56.9	52.6	50.1	52.3
Other MSA	_	58.6	62.0	62.4	62.3	62.1	61.9	58.6	59.4	56.6	56.8	55.1	56.4	53.0	51.6	47.3
Non-MSA	_	59.3	60.7	61.7	64.4	60.5	63.0	60.0	63.6	63.7	57.3	56.3	55.4	54.3	52.1	42.4
Parental Education: a																
1.0-2.0 (Low)	_	58.5	48.3	54.6	52.9	55.9	54.7	56.8	58.8	51.1	52.2	46.8	55.8	47.1	45.3	42.2
2.5–3.0	_	62.7	64.8	63.6	64.5	66.1	65.4	58.5	59.8	62.4	56.8	54.6	53.6	51.9	52.4	47.5
3.5–4.0	_	58.4	66.0	62.7	67.1	64.4	64.0	63.9	62.3	61.2	57.9	56.0	56.0	51.5	52.2	45.8
4.5–5.0	_	62.6	64.4	64.7	68.4	58.4	60.1	60.0	66.2	61.9	60.5	57.6	59.9	58.2	51.4	49.3
5.5-6.0 (High)	_	64.1	69.3	68.3	63.6	69.3	68.9	68.3	65.9	54.2	55.4	62.5	57.7	57.4	53.2	53.4
Race/Ethnicity (2-year average): b																
White	_	_	63.8	65.2	65.9	66.3	66.3	65.4	64.6	64.6	62.2	59.9	59.6	59.1	57.0	54.1
African American	_	_	38.7	36.4	37.4	38.7	38.8	37.2	39.2	36.9	33.1	32.7	28.6	30.3	32.6	28.4
Hispanic	_	_	52.7	54.3	52.3	52.5	47.7	47.5	43.4	40.7	46.5	50.9	55.4	49.2	40.4	36.6

TABLE 109 (cont.)

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						Perce	entage w	ho used i	in last 30	days					
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	47.2	42.0	43.4	42.6	44.9	46.9	44.4	45.6	42.7	42.7	41.5	39.7	37.8	38.3	38.0
Gender:															
Male	55.3	50.1	50.0	51.2	53.0	53.5	49.7	55.0	48.2	51.7	50.9	44.3	44.5	44.1	47.3
Female	39.3	34.6	37.2	35.6	37.4	40.2	39.9	37.0	36.9	33.9	32.1	34.4	31.7	32.1	30.4
College Plans:															
None or under 4 years	52.4	48.8	48.2	47.1	50.1	46.2	44.6	49.6	47.5	42.4	54.1	45.7	39.4	44.0	45.1
Complete 4 years	45.2	39.9	41.5	41.6	42.8	47.0	44.4	44.4	41.7	42.4	38.4	37.9	37.2	36.6	36.6
Region:															
Northeast	49.5	40.8	47.0	43.3	47.0	56.9	47.5	52.6	54.3	48.9	47.2	43.4	41.9	42.6	41.3
Midwest	53.5	49.1	46.3	48.0	49.7	48.1	43.3	44.6	45.4	47.6	48.1	42.9	43.1	41.4	40.5
South	41.1	39.5	43.0	40.4	43.8	44.4	43.3	43.2	36.6	35.1	33.6	35.1	32.0	34.2	33.8
West	46.0	36.7	37.0	38.2	37.8	38.8	44.5	45.5	40.2	43.5	39.9	39.8	36.9	36.1	38.8
Population Density:															
Large MSA	44.4	42.3	44.0	42.8	45.9	49.1	45.5	42.1	39.9	45.2	38.0	40.5	36.3	34.2	37.9
Other MSA	47.6	40.3	42.0	39.4	43.7	46.9	45.0	47.6	42.8	40.7	42.6	38.8	38.9	38.9	38.4
Non-MSA	48.8	45.1	45.3	47.6	46.0	45.3	41.9	45.6	45.4	43.2	43.3	40.5	37.5	41.4	37.1
Parental Education: a															
1.0–2.0 (Low)	48.1	36.6	41.1	37.0	43.1	31.2	30.4	37.0	35.4	37.2	39.1	41.6	30.9	34.1	32.9
2.5–3.0	46.7	41.4	43.7	44.4	44.0	42.4	41.5	42.8	43.0	37.4	48.0	36.6	36.2	38.0	35.8
3.5-4.0	48.4	40.7	44.4	42.2	42.8	48.2	46.3	48.9	42.5	45.1	35.8	40.9	39.9	43.0	38.4
4.5–5.0	46.4	43.8	41.9	41.1	47.1	47.1	47.7	48.9	40.0	43.9	43.6	39.9	38.4	36.1	42.4
5.5-6.0 (High)	46.1	47.0	47.7	46.6	49.6	58.0	49.9	44.5	51.8	52.0	42.3	45.2	41.4	38.7	37.6
Race/Ethnicity (2-year average): b															
White	51.6	48.3	46.0	46.5	47.8	50.1	50.7	49.9	47.7	45.8	46.7	45.4	43.1	42.1	42.3
African American	25.3	24.2	28.0	29.9	25.6	28.4	25.5	22.8	22.3	21.7	20.6	16.9	14.0	15.7	18.0
Hispanic	40.3	44.7	39.8	40.5	41.7	41.3	39.8	39.0	43.6	45.3	42.6	40.8	37.2	36.7	39.2

TABLE 109 (cont.)

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 30 days													
	2006	2007	2000	2000	2040	2044	2042	2042	2044	2045	2016	2047	2018	2017-2018
Approximate weighted N =		2007 14,500	2008 14.000	2009 13,700	2010 14,400	2011 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	<u>2016</u> 11,800	2017 12,600	13,300	<u>change</u>
Total	35.5	36.6	33.7	34.9	31.7	29.0	32.2	30.8	28.6	25.4	23.6	25.5	21.8	-3.7
Gender:														
Male	39.7	43.7	40.7	42.2	39.7	35.2	39.1	36.9	33.1	28.9	28.2	32.6	25.0	-7.7 s
Female	31.1	29.3	27.7	28.7	23.0	22.4	25.6	24.6	24.4	22.4	19.0	19.7	18.5	-1.2
College Plans:														
None or under 4 years	46.2	39.0	43.7	38.5	40.6	35.8	33.9	41.5	31.4	27.1	23.5	30.8	23.5	-7.2
Complete 4 years	33.4	35.7	31.7	34.1	30.2	27.5	31.9	28.4	27.6	25.2	23.4	24.7	21.5	-3.2
Region:														
Northeast	42.9	44.1	39.7	42.6	41.2	30.5	40.7	35.7	32.4	38.1	26.5	30.6	23.7	-6.9
Midwest	35.8	39.2	32.7	37.8	31.8	31.2	31.1	33.6	28.8	22.2	26.3	29.6	22.5	-7.0
South	34.2	34.2	33.4	31.0	29.0	25.5	26.4	28.2	26.5	20.8	20.2	23.5	20.4	-3.1
West	31.3	31.7	31.8	30.5	28.9	31.0	35.1	27.9	28.7	26.7	25.6	21.6	22.0	+0.4
Population Density:														
Large MSA	35.1	40.7	36.9	39.5	31.6	30.9	36.2	30.7	30.0	29.4	20.7	25.0	22.7	-2.3
Other MSA	37.2	32.8	31.5	31.7	33.1	27.9	32.4	32.5	29.0	23.4	24.7	22.5	18.4	-4.0
Non-MSA	33.0	38.2	35.0	36.6	28.3	29.0	26.0	26.9	25.8	23.7	25.4	32.4	27.9	-4.5
Parental Education: a														
1.0–2.0 (Low)	27.5	32.8	28.5	32.2	24.1	28.7	32.1	24.5	26.3	28.2	23.5	11.0	18.0	+7.0
2.5–3.0	38.1	35.2	34.7	30.4	34.8	28.9	30.9	33.7	26.6	26.2	20.6	24.5	21.8	-2.7
3.5–4.0	35.7	36.8	30.9	36.9	31.5	26.2	31.4	33.2	30.5	22.7	23.8	26.9	19.5	-7.4 s
4.5–5.0	35.3	39.4	33.8	38.9	34.3	32.3	33.6	32.7	25.9	28.3	24.5	28.7	23.6	-5.1
5.5–6.0 (High)	38.4	38.8	43.1	33.7	28.2	29.5	34.7	26.1	39.5	23.2	26.4	33.8	29.1	-4.7
Race/Ethnicity (2-year average): b														
White	41.8	41.0	39.7	37.8	36.4	34.0	33.8	34.5	34.0	31.5	29.1	31.0	30.8	-0.2
African American	14.8	13.6	14.6	19.3	18.9	12.0	12.2	15.2	13.4	11.1	9.7	7.3	6.6	-0.7
Hispanic	35.4	32.7	31.2	31.6	32.1	32.7	35.5	32.9	30.7	29.6	23.8	21.6	20.0	-1.6

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 110

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

				Pe	rcentage	reportin	g 5+ drin	ks in a r	ow on or	ne or mo	re occas	ions				
	<u>1991</u>	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	
Total	7.2	7.3	8.2	8.5	8.5	9.2	7.6	8.0	8.3	7.5	8.1	6.1	5.5	6.8	5.8	
Gender:																
Male	9.2	8.9	9.4	10.6	9.8	10.1	9.2	10.0	10.5	8.8	9.4	6.5	5.8	6.4	5.5	
Female	5.2	5.9	7.1	6.7	7.4	8.2	6.0	6.3	6.2	6.3	7.0	5.5	5.1	6.9	6.2	
College Plans:																
None or under 4 years	15.4	18.2	18.4	20.7	17.5	19.7	22.0	21.6	24.8	21.9	25.4	19.0	17.5	19.0	16.7	
Complete 4 years	5.9	5.8	6.9	7.1	7.5	7.6	6.0	6.6	6.2	6.1	6.3	5.0	4.2	5.5	4.9	
Region:																
Northeast	4.8	5.5	5.8	8.1	9.3	10.7	7.6	6.6	9.1	5.7	9.4	3.5	5.6	6.5	3.7	
Midwest	6.9	7.0	7.6	8.8	8.0	9.2	8.4	10.0	9.3	8.9	7.8	5.6	7.0	8.3	4.7	Table continued on next page.
South	8.9	9.0	9.4	8.1	8.8	8.4	6.9	8.0	8.9	7.1	7.9	6.7	5.1	6.4	7.4	
West	7.0	6.7	9.2	9.1	8.1	9.2	7.9	7.1	5.3	8.0	7.9	8.4	4.2	6.0	6.0	
Population Density:																
Large MSA	6.6	7.4	6.1	6.9	5.3	8.5	5.6	6.7	6.2	6.0	5.4	5.0	4.2	5.6	4.9	
Other MSA	7.0	7.6	8.2	9.1	8.8	9.3	7.4	6.6	8.6	6.4	8.4	6.0	5.3	6.4	6.0	
Non-MSA	8.4	6.8	10.7	8.4	9.8	9.8	9.6	12.3	10.2	11.5	10.5	7.7	7.3	8.9	6.6	
Parental Education: a																
1.0-2.0 (Low)	12.6	12.5	11.0	11.6	12.5	12.8	9.8	12.6	17.9	14.8	11.5	11.2	9.4	11.9	14.0	
2.5–3.0	7.7	8.9	9.9	9.3	10.2	10.7	10.1	8.0	9.8	10.9	10.0	8.1	7.2	8.8	8.1	
3.5-4.0	7.8	7.0	7.9	9.0	9.8	10.1	8.3	9.0	10.4	6.6	9.1	6.8	6.0	7.9	5.3	
4.5–5.0	5.0	4.5	7.3	6.8	6.1	7.5	5.3	5.9	3.9	5.0	5.1	3.7	3.5	5.3	4.3	
5.5-6.0 (High)	6.2	6.0	6.2	8.4	5.9	6.7	5.7	8.7	6.1	4.3	5.3	4.8	4.1	4.7	2.4	
Race/Ethnicity (2-year average): b																
White	_	7.0	7.6	8.0	8.7	9.2	8.6	7.9	8.3	8.3	7.7	6.7	5.7	6.1	5.9	
African American	_	5.2	5.1	7.2	6.4	4.9	4.4	3.6	4.7	4.9	4.0	3.2	3.0	3.6	3.1	
Hispanic	_	12.7	13.2	12.1	11.6	12.7	12.3	10.5	10.2	9.8	12.3	13.2	10.3	9.1	10.0	

TABLE 110 (cont.)

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

	Percentage reporting 5+ drinks in a row on one or more occasions													
	0000	000-	0005	0000	0046	0044	0046	0046	0047	0045	0046	004=	0040	2017-201
	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	change
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	5.5	5.4	5.1	4.9	4.8	4.3	3.5	3.0	2.5	2.5	2.0	2.6	2.9	+0.3
Gender:														
Male	5.9	5.5	6.0	5.3	5.2	4.4	3.5	2.8	2.6	2.3	1.9	2.6	3.1	+0.5
Female	4.9	4.8	4.3	4.1	4.7	4.0	3.6	3.1	2.4	2.6	2.1	2.5	2.7	+0.2
College Plans:														
None or under 4 years	13.9	15.3	19.2	15.4	16.8	8.4	12.2	7.8	6.7	8.6	4.9	6.4	7.7	+1.3
Complete 4 years	4.7	4.4	4.1	4.1	3.9	4.0	2.9	2.7	2.2	2.0	1.8	2.1	2.2	+0.2
Region:														
Northeast	4.1	4.8	5.3	4.6	4.8	2.1	2.1	2.0	1.8	1.9	1.3	8.0	1.9	+1.0
Midwest	5.9	3.6	4.6	4.4	4.3	4.9	1.5	2.8	2.9	1.9	1.6	2.2	2.9	+0.7
South	6.3	6.6	6.2	5.8	5.8	4.3	4.1	3.7	2.6	3.1	2.7	3.1	2.8	-0.4
West	4.9	5.4	3.9	4.2	3.9	5.4	5.8	2.6	2.6	2.3	1.5	3.5	3.8	+0.3
Population Density:														
Large MSA	4.1	4.5	5.6	4.4	4.4	3.0	3.6	2.3	1.7	2.1	2.2	1.9	2.8	+0.9
Other MSA	5.4	5.2	4.7	4.4	5.0	4.6	3.7	3.4	2.7	2.5	1.6	2.6	3.2	+0.6
Non-MSA	7.8	6.9	5.2	6.8	5.2	5.5	2.9	2.8	3.3	2.9	2.4	3.6	2.2	-1.3
Parental Education: a														
1.0-2.0 (Low)	8.9	11.6	11.3	9.5	9.2	7.6	7.7	6.1	4.7	6.2	7.3	3.9	4.8	+0.8
2.5–3.0	7.1	8.8	8.8	6.8	7.6	5.5	5.1	3.1	3.7	4.3	2.5	2.8	4.7	+1.9
3.5-4.0	5.4	4.8	5.7	5.1	4.8	5.7	2.7	4.1	2.9	1.8	1.7	2.6	2.8	+0.2
4.5-5.0	4.3	3.4	2.5	4.3	3.4	3.0	2.4	2.2	1.4	1.4	1.4	2.6	1.8	-0.8
5.5-6.0 (High)	4.7	2.1	2.3	2.0	2.5	2.7	1.4	2.1	1.6	0.9	0.9	1.6	1.9	+0.4
Race/Ethnicity (2-year average): b														
White	5.2	4.9	4.8	5.0	4.8	4.3	3.3	2.9	2.5	1.9	1.8	2.0	2.3	+0.3
African American	2.7	2.6	2.4	2.0	1.5	2.9	3.0	1.3	1.7	1.6	0.9	1.4	1.9	+0.5
Hispanic	9.0	9.0	9.0	7.3	7.1	7.0	7.3	5.9	3.6	3.9	4.3	3.4	3.7	+0.4

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S1. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 111

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

				Pe	rcentage	reportin	g 5+ drir	nks in a r	ow on or	ne or mo	re occas	ions				
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	<u>2005</u>	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	16.4	15.1	16.1	17.0	17.1	17.9	17.6	16.0	18.1	17.5	16.3	14.1	13.8	13.6	13.1	
Gender:																
Male	21.7	18.9	20.4	23.0	21.1	22.5	21.2	20.7	24.0	22.5	22.2	16.7	18.3	17.1	15.2	
Female	11.7	11.7	11.8	11.1	13.1	13.7	14.4	11.8	12.5	12.7	11.2	11.7	9.9	10.4	10.8	
College Plans:																
None or under 4 years	25.4	22.8	25.4	26.6	28.2	30.7	31.6	26.1	29.9	26.8	31.2	26.2	22.7	20.5	23.0	
Complete 4 years	14.5	13.5	14.2	15.0	15.3	15.8	15.4	14.2	16.2	15.9	14.1	12.2	12.6	12.7	11.8	
Region:																
Northeast	19.0	14.6	17.1	18.4	17.4	19.9	17.5	18.8	21.5	16.4	15.2	12.6	16.4	16.9	15.2	
Midwest	16.5	16.7	17.3	18.2	18.3	18.8	18.4	16.3	18.3	20.9	16.4	14.9	13.5	10.9	14.6	Table continued o
South	15.4	13.9	14.9	16.9	16.9	17.7	16.6	15.4	17.5	15.7	15.9	13.2	12.4	12.8	10.8	
West	15.9	15.5	15.2	13.5	15.5	15.1	18.3	14.0	15.5	16.9	18.3	16.0	14.0	15.0	12.4	
Population Density:																
Large MSA	16.0	14.8	15.2	14.5	12.7	16.4	15.9	12.8	18.0	16.9	13.0	12.0	13.0	11.5	10.6	
Other MSA	15.8	13.9	13.9	17.0	17.2	17.6	17.6	15.9	17.3	16.3	15.7	13.5	13.1	14.4	13.8	
Non-MSA	17.9	17.7	20.9	18.7	19.6	20.1	19.1	19.6	20.1	20.1	21.2	18.1	17.0	14.7	14.6	
Parental Education: a																
1.0-2.0 (Low)	21.3	15.6	18.9	19.2	20.3	20.5	18.1	12.8	14.2	16.7	17.9	13.8	19.0	14.1	15.1	
2.5–3.0	18.5	16.6	15.3	18.5	19.7	18.8	18.0	19.0	20.5	16.5	15.9	15.8	14.8	17.1	16.3	
3.5-4.0	15.0	15.6	16.5	16.7	17.4	18.5	18.9	15.8	17.6	17.9	17.8	14.4	13.7	13.9	13.6	
4.5–5.0	15.1	14.0	16.3	16.8	16.0	15.9	16.5	14.9	17.3	19.0	14.3	12.5	13.1	12.0	11.6	
5.5-6.0 (High)	15.4	13.1	15.3	14.5	13.8	18.3	16.1	16.2	19.3	16.8	17.5	13.1	11.8	13.7	11.3	
Race/Ethnicity (2-year average): b																
White	_	16.7	16.4	17.4	18.1	19.0	19.3	18.6	19.7	19.9	18.1	16.5	16.1	15.5	15.1	
African American	_	9.8	10.1	9.3	8.7	6.5	6.6	5.5	4.0	6.2	6.8	6.1	4.7	4.1	4.2	
Hispanic	_	17.2	16.1	16.8	18.6	19.7	19.5	16.9	14.8	17.5	20.3	17.5	16.2	17.5	16.5	

TABLE 111 (cont.)

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

	Percentage reporting 5+ drinks in a row on one or more occasions													
	0000	0007	0000	0000	0040	0044	0040	0040	0044	0045	0040	0047	0040	2017-2018
	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	change
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900		12,900	13,000		14,700		14,300	
Total	14.5	13.7	10.8	11.3	10.9	10.3	10.4	9.1	8.2	7.4	5.6	6.4	6.8	+0.4
Gender:														
Male	16.3	16.5	12.8	13.6	14.0	12.7	12.9	10.8	9.9	8.6	6.2	7.1	9.4	+2.2
Female	12.3	10.7	9.2	9.1	8.0	7.7	8.1	7.1	6.6	6.2	4.9	5.9	4.4	-1.5
College Plans:														
None or under 4 years	26.1	26.4	21.2	24.3	23.9	20.0	18.3	15.2	18.3	16.4	11.3	13.7	11.2	-2.6
Complete 4 years	12.8	12.3	9.6	10.0	9.4	9.3	9.7	8.4	7.0	6.5	5.0	5.6	6.2	+0.6
Region:														
Northeast	17.7	14.7	12.0	12.1	10.3	12.2	12.7	8.8	9.0	8.7	6.1	7.0	8.2	+1.2
Midwest	14.8	14.2	11.2	11.0	10.9	8.0	9.9	6.4	6.2	6.4	5.2	4.5	5.3	+0.9
South	12.7	12.5	11.3	11.6	10.7	11.2	11.1	12.0	9.0	8.0	4.8	7.2	8.2	+1.0
West	13.7	13.9	9.0	10.4	11.8	10.1	8.0	8.4	8.3	6.5	6.7	6.9	5.1	-1.9
Population Density:														
Large MSA	13.3	12.7	10.2	10.4	10.6	9.5	11.4	7.5	7.2	6.8	6.6	6.4	7.0	+0.6
Other MSA	15.3	12.5	10.9	11.5	10.5	10.6	9.4	9.3	8.1	7.1	4.5	6.6	6.1	-0.4
Non-MSA	14.1	17.8	11.7	12.2	12.3	10.6	11.1	10.8	10.1	9.6	6.8	6.1	8.2	+2.0
Parental Education: a														
1.0-2.0 (Low)	16.4	19.2	15.1	17.0	19.0	16.0	17.5	13.5	10.9	10.3	5.1	10.2	10.2	0.0
2.5–3.0	17.8	18.1	13.2	13.7	11.7	12.1	11.2	10.8	11.1	8.4	7.1	8.1	5.5	-2.6
3.5-4.0	14.5	13.9	10.9	12.6	11.4	10.5	9.3	9.3	8.8	8.7	5.6	6.4	6.1	-0.3
4.5–5.0	12.3	11.0	9.5	8.4	8.9	9.2	10.2	7.7	6.0	6.6	5.7	4.8	6.4	+1.7
5.5-6.0 (High)	14.3	10.6	7.6	9.6	7.9	7.6	10.2	7.6	7.2	6.0	4.6	5.5	7.1	+1.6
Race/Ethnicity (2-year average): b														
White	15.8	15.7	13.7	12.2	11.4	10.7	11.0	10.1	9.4	8.8	7.2	6.6	7.6	+1.0
African American	3.8	3.7	3.7	4.0	4.4	4.2	3.1	3.1	3.0	3.2	2.8	1.9	1.1	-0.8 s
Hispanic	16.0	16.6	15.7	14.7	17.2	17.1	14.3	12.6	8.9	7.3	7.2	8.0	8.8	+0.8

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S2. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S2.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 112

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

<u>.</u>	Percentage reporting 5+ drinks in a row on one or more occasions															
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	<u>1983</u>	1984	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	_	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	33.0	35.1	35.4	36.4	36.6	38.0	37.6	38.1	36.2	32.0	33.1	33.8	31.0	31.3	27.0
Gender:																
Male	_	45.6	49.0	49.8	50.6	51.1	49.4	48.5	49.8	47.7	42.6	45.4	45.4	41.5	39.5	37.1
Female	_	21.4	23.5	22.6	24.2	23.9	26.5	27.3	27.4	25.0	22.4	22.4	23.1	22.2	23.8	16.5
College Plans:																
None or under 4 years	_	37.7	39.2	41.6	39.5	43.5	42.8	42.1	43.1	41.2	35.5	36.1	37.8	36.9	37.7	29.0
Complete 4 years	_	27.8	31.0	29.4	33.3	30.9	34.2	34.2	34.3	33.6	29.8	30.8	31.7	28.4	28.5	26.0
Region:																
Northeast	_	39.0	35.3	36.5	41.9	41.4	42.1	40.0	37.9	39.8	35.5	32.6	32.1	32.7	32.1	27.4
Midwest	_	35.8	37.6	39.9	39.0	42.3	43.6	45.3	45.1	43.7	34.2	40.8	41.3	38.5	38.2	31.4
South	_	26.6	33.9	31.8	34.0	30.5	33.9	31.7	35.1	31.5	26.6	29.4	30.7	25.7	27.5	23.8
West	_	31.0	31.6	32.0	28.3	31.1	28.5	28.1	31.3	29.4	33.8	27.5	29.8	28.5	27.4	25.1
Population Density:																
Large MSA	_	32.8	34.4	34.4	35.0	40.9	38.9	36.2	37.4	34.5	31.2	33.9	32.3	29.6	27.3	32.0
Other MSA	_	33.9	35.4	35.7	36.3	33.9	37.7	36.6	36.6	33.2	30.2	31.5	34.5	30.9	32.3	26.9
Non-MSA	_	32.1	35.2	35.7	37.6	37.0	37.6	39.8	40.6	41.4	35.1	35.0	33.9	32.6	32.9	22.6
Parental Education: a																
1.0-2.0 (Low)	_	30.7	31.9	33.6	32.8	31.1	32.3	35.0	38.4	26.8	27.4	28.5	32.9	31.3	26.9	28.1
2.5–3.0	_	37.5	36.4	37.8	38.0	38.8	42.9	37.5	37.4	39.2	33.6	34.2	34.3	31.0	32.2	26.7
3.5-4.0	_	32.9	34.8	34.4	36.5	37.6	39.2	41.6	39.1	37.1	32.1	32.9	34.9	29.4	32.8	24.9
4.5–5.0	_	33.9	34.1	36.2	38.2	36.0	31.7	35.3	39.1	39.9	35.9	34.4	34.7	32.8	31.2	27.7
5.5-6.0 (High)	_	27.2	38.0	28.7	35.5	37.6	38.5	38.9	36.5	30.2	27.4	33.8	29.7	31.4	26.5	32.3
Race/Ethnicity (2-year average): b																
White	_	_	35.5	36.8	37.6	38.5	40.1	40.9	40.8	40.0	37.1	35.3	35.8	35.2	34.4	32.5
African American	_	_	18.8	19.5	19.4	17.7	16.4	16.9	18.1	18.9	15.5	13.2	13.6	16.1	18.5	13.5
Hispanic	_	_	34.4	33.5	31.5	32.7	30.8	27.6	27 9	27 4	24.6	29.4	32.8	27.5	22.0	20.6

TABLE 112 (cont.)

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

				Pe	rcentage	reportin	g 5+ drin	ks in a ro	ow on on	e or more	e occasio	ns			
	1001	1002	1002	1004	1005	1006	1007	1000	1000	2000	2001	2002	2002	2004	2005
Approximate weighted N =	1991 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	1998 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	28.5	25.4	25.5	24.6	27.6	29.2	26.7	28.5	25.6	27.5	26.7	26.1	21.4	23.7	22.4
Gender:															
Male	37.0	34.0	34.2	35.7	36.5	38.7	32.9	39.3	34.7	38.2	35.9	33.7	31.1	32.1	30.9
Female	20.1	17.6	18.1	15.5	19.5	19.2	21.2	19.5	17.0	17.6	18.0	18.2	12.9	15.6	15.3
College Plans:															
None or under 4 years	35.1	32.8	30.2	29.6	32.7	29.4	29.0	39.7	29.5	31.0	40.5	37.0	24.9	32.0	28.9
Complete 4 years	26.0	23.3	23.8	23.4	25.4	28.8	26.2	25.1	24.7	26.0	23.3	22.9	20.3	21.5	21.1
Region:															
Northeast	27.8	25.7	28.5	23.4	30.5	35.4	32.0	34.2	33.0	32.7	26.5	28.6	27.1	26.1	25.8
Midwest	34.7	32.5	27.6	28.3	30.2	29.9	25.7	31.4	28.9	32.4	33.9	28.9	24.8	26.2	26.2
South	24.2	22.9	25.2	24.8	27.2	27.5	24.1	25.5	21.3	20.0	19.7	22.4	16.8	21.8	20.2
West	27.3	18.4	20.8	19.7	21.8	24.6	27.6	25.6	22.8	29.4	27.9	26.3	19.2	20.9	18.0
Population Density:															
Large MSA	24.7	26.0	23.8	23.6	26.9	32.4	26.2	24.4	21.3	29.8	23.4	25.7	18.9	20.9	21.4
Other MSA	28.8	24.2	24.8	22.6	26.7	29.3	27.9	30.3	26.8	26.1	26.7	25.2	22.9	22.9	23.7
Non-MSA	31.0	27.2	28.1	28.7	30.0	26.6	25.0	29.5	28.1	27.4	30.2	28.1	21.7	28.2	21.0
Parental Education: <sup>a</sup>															
1.0-2.0 (Low)	34.9	23.4	27.3	23.7	28.9	23.8	18.7	23.5	22.1	16.8	28.2	32.0	20.1	18.5	17.0
2.5–3.0	29.2	26.6	26.1	25.3	27.6	25.0	26.0	26.5	27.7	24.3	31.9	24.5	22.9	27.0	21.3
3.5–4.0	29.4	25.2	26.6	24.2	25.6	29.3	28.3	31.9	26.5	29.1	21.4	27.4	20.5	26.3	23.0
4.5–5.0	26.2	23.9	24.1	24.1	27.6	28.1	29.1	29.3	24.2	28.7	28.7	24.4	23.3	20.9	25.5
5.5–6.0 (High)	25.7	26.9	26.1	26.0	32.2	41.0	28.3	27.6	24.3	35.1	28.0	27.3	19.0	20.2	21.8
Race/Ethnicity (2-year average): <sup>b</sup>															
White	30.6	29.6	27.6	27.3	29.0	31.3	31.4	31.3	30.0	28.8	31.0	30.2	26.4	25.3	26.1
African American	10.2	13.1	15.5	15.4	12.6	14.6	13.3	11.7	10.6	9.9	9.1	7.6	6.1	9.3	11.2
Hispanic	23.8	27.2	24.8	24.9	23.8	26.1	26.0	24.4	27.5	29.0	27.1	24.7	21.6	20.0	19.7

TABLE 112 (cont.)

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

			Pe	rcentage	reportin	g 5+ drin	ks in a r	ow on on	e or more	e occasio	ons			
Approximate weighted N	<u>2006</u>	2007 14.500	2008 14.000	2009 13.700	2010 14.400	<u>2011</u> 14.100	2012 13.700	2013 12,600	2014 12,400	2015 12.900	2016 11.800	2017 12.600	2018 13.300	2017-2018 <u>change</u>
Approximate weighted N =		,	,	-,	,	,	-,			,	,	,	-,	0.0 -
Total	21.4	22.0	20.9	20.8	19.5	16.8	18.8	17.3	16.8	13.6	11.5	14.7	11.2	-3.6 s
Gender:						0.4.0	05.4	00.0				00.5		0.4
Male	26.9	27.7	27.7	28.0	26.3	24.2	25.1	23.3	22.3	17.5	14.7	20.5	14.4	-6.1 s
Female	16.2	16.1	15.1	14.3	12.4	10.2	12.3	11.8	11.7	10.0	7.6	9.8	8.1	-1.7
College Plans:														
None or under 4 years	31.5	24.2	30.9	26.7	25.9	21.1	21.3	25.6	18.7	16.6	13.3	21.7	16.5	-5.2
Complete 4 years	19.0	21.2	18.7	19.5	18.3	16.0	18.0	15.3	16.0	12.9	10.7	13.1	9.6	-3.5 s
Region:														
Northeast	25.9	29.5	23.7	26.0	25.2	17.7	24.9	20.9	18.9	20.0	15.0	19.8	12.1	-7.7
Midwest	22.1	24.3	21.0	23.6	23.3	21.5	18.6	19.8	14.4	13.7	12.7	19.0	10.8	-8.2
South	20.6	18.8	21.1	16.7	16.6	14.2	16.1	15.6	17.1	10.4	9.0	13.3	11.1	-2.1
West	18.1	18.6	18.7	18.8	16.0	15.1	18.5	14.2	16.7	14.0	12.7	9.9	11.0	+1.1
Population Density:														
Large MSA	21.2	25.1	22.7	21.0	17.8	17.7	22.4	17.3	17.4	14.8	11.5	14.0	12.4	-1.6
Other MSA	21.2	19.0	18.8	19.4	21.4	15.6	18.3	16.9	15.8	13.2	10.6	12.9	9.0	-3.9 s
Non-MSA	22.1	23.3	23.4	23.6	17.3	18.3	14.6	18.0	18.2	12.6	13.7	19.6	13.9	-5.7
Parental Education: a														
1.0-2.0 (Low)	19.3	21.5	14.0	21.8	12.3	15.8	22.5	15.4	19.6	12.5	15.1	7.7	11.7	+3.9
2.5–3.0	23.2	23.1	20.4	17.6	22.3	16.9	19.7	18.4	14.2	15.3	9.6	13.7	10.6	-3.1
3.5-4.0	23.9	21.1	19.8	21.2	19.9	16.1	18.9	19.2	19.3	10.6	10.2	15.9	9.3	-6.6 s
4.5–5.0	19.6	24.2	21.1	23.6	20.9	18.7	18.1	18.5	15.1	16.2	11.7	16.7	13.3	-3.4
5.5-6.0 (High)	19.3	21.0	27.6	19.6	15.8	15.6	15.9	12.1	17.0	12.6	13.6	17.2	11.3	-5.9
Race/Ethnicity (2-year average): b														
White	25.8	25.8	25.3	23.6	23.0	21.4	19.7	19.6	20.2	18.1	14.8	16.7	17.2	+0.5
African American	7.1	5.0	5.7	8.2	6.1	4.8	5.3	5.9	7.7	6.8	4.3	3.1	3.7	+0.6
Hispanic	19.8	19.8	17.5	19.4	20.6	18.6	22.9	22.1	16.6	17.7	15.0	11.8	11.2	-0.6

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 113 **LIQUOR:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

Percentage who used in last 30 days 1976 1980 1981 1990 1975 1977 1978 <u> 1979</u> 1982 1983 <u>1984</u> 1985 1986 <u>1987</u> 1988 <u> 1989</u> Approximate weighted N = 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 15,200 Total 44.1 45.0 48.2 47.3 47.9 44.6 45.2 46.4 42.3 40.0 41.0 39.0 35.6 35.7 30.8 Gender: 48.9 48.5 48.8 Male 44.4 44.7 48.8 45.3 45.2 43.3 40.3 43.7 42.8 38.5 39.6 36.9 Female 43.8 45.3 47.6 46.6 47.4 44.3 45.1 43.7 40.8 39.5 38.6 35.4 33.6 32.1 24.6 College Plans: None or under 4 years 44.6 47.8 49.3 46.1 51.4 46.9 47.5 47.4 44.6 41.0 38.9 39.4 36.8 38.1 30.6 Complete 4 years 43.8 42.5 47.7 48.5 45.1 43.0 43.6 45.3 40.6 39.6 41.8 39.0 35.0 35.0 30.4 Region: Northeast 52.5 47.4 47.8 56.7 53.2 49.5 50.8 50.8 46.4 42.1 37.2 43.3 36.1 40.3 34.5 Midwest 47.0 49.7 53.7 45.4 46.5 47.2 49.1 50.5 45.6 40.1 49.8 42.2 42.2 40.5 31.0 South 37.6 39.8 46.0 43.6 48.5 38.8 38.7 43.3 38.5 37.1 35.9 34.6 30.4 33.0 29.6 39.6 West 38.3 41.3 42.0 45.0 42.9 43.2 40.0 38.4 39.6 42.1 37.4 35.0 30.0 28.5 Population Density: Large MSA 47.3 45.4 49.3 52.0 51.7 44.4 48.5 48.1 40.8 37.7 41.2 39.9 36.0 36.4 33.8 Other MSA 44.7 46.0 48.3 47.1 48.4 45.9 45.6 45.5 40.9 39.3 39.9 40.5 36.3 33.5 31.1 Non-MSA 41.4 43.3 47.2 44.1 44.8 43.2 42.1 46.1 45.1 42.6 42.4 35.5 34.0 40.3 27.7 Parental Education: a 1.0-2.0 (Low) 33.5 25.7 40.8 38.2 37.3 38.2 44.2 43.1 40.3 41.6 33.1 36.2 36.1 32.2 32.1 2.5 - 3.046.7 45.9 49.8 46.6 47.8 43.5 44.8 44.7 46.3 37.9 38.1 36.0 34.6 32.1 29.5 3.5-4.0 47.3 47.5 48.0 46.5 42.0 39.2 42.3 38.2 33.1 44.7 51.9 51.7 46.6 38.3 31.6 4.5-5.0 47.9 45.6 49.1 51.7 48.7 40.7 43.6 50.0 44.9 48.0 43.9 43.4 38.7 36.9 34.2 5.5-6.0 (High) 39.4 46.6 53.4 54.2 49.3 53.4 53.8 54.2 55.2 40.4 40.9 47.4 45.7 37.7 33.8 Race/Ethnicity (2-year average): b White 47.5 49.5 50.3 50.1 48.9 48.2 49.0 47.3 44.1 43.5 43.4 41.1 39.8 37.7 African American 21.2 19.9 23.3 27.5 25.1 21.5 25.3 23.7 18.5 17.4 15.0 16.0 14.4 16.8 Hispanic 47.7 48.8 43.3 47.2 45.6 41.2 35.6 35.4 42.1 40.4 36.9 31.6 24.6 21.0

TABLE 113 (cont.)

LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

	Percenta	age who	used in l	ast 30 da	ıys											
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	<u>1993</u> 16,300	<u>1994</u> 15.400	<u>1995</u> 15.400	<u>1996</u> 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14.600	2004 14.600	2005 14.700	
Total	31.3	28.6	31.4	28.0	34.3	34.7	34.6	37.3	34.3	36.0	35.1	36.0	34.3	35.6	36.4	
Gender:																
Male	34.9	32.0	36.4	32.8	38.2	36.4	36.3	41.2	38.0	41.7	35.6	37.9	36.1	39.3	38.4	
Female	28.0	25.9	27.3	23.2	30.9	32.6	33.4	33.3	30.0	30.7	33.7	33.8	32.9	32.2	34.9	
College Plans:																
None or under 4 years	37.0	31.9	37.3	28.3	36.8	35.8	34.2	38.3	35.0	38.1	40.4	42.5	36.9	40.3	42.6	
Complete 4 years	29.0	27.4	29.9	28.1	33.4	34.1	34.9	36.6	33.9	35.0	33.6	34.2	33.6	34.3	35.5	
Region:																
Northeast	36.6	25.8	32.4	25.9	37.7	40.9	36.6	46.3	39.8	40.9	40.8	41.4	35.8	41.1	41.9	
Midwest	33.5	33.5	32.1	29.0	35.4	36.2	35.2	36.6	33.7	40.5	37.4	39.6	37.4	35.4	39.3	Table continued on next page.
South	28.1	27.1	34.7	28.1	34.9	33.6	32.9	33.9	32.1	28.3	31.7	32.9	30.7	33.3	33.7	
West	29.0	26.3	24.0	28.2	28.7	27.8	35.1	37.2	34.5	38.5	33.3	31.8	35.4	33.8	32.3	
Population Density:																
Large MSA	30.4	29.8	32.2	30.3	33.3	30.6	36.0	37.2	34.5	41.1	36.0	37.5	32.4	30.1	36.2	
Other MSA	33.1	27.4	30.4	26.5	34.9	38.0	34.6	38.9	34.9	33.8	35.4	37.0	35.6	37.7	37.8	
Non-MSA	29.1	30.0	32.7	28.1	34.3	32.4	33.4	33.9	33.3	34.0	33.9	32.3	34.3	37.4	34.2	
Parental Education: a																
1.0-2.0 (Low)	29.7	25.4	29.1	23.6	26.8	24.7	27.7	33.5	35.3	30.8	28.2	29.4	27.6	29.5	30.9	
2.5–3.0	32.6	29.9	29.4	28.2	34.8	37.5	31.8	33.5	33.7	28.7	36.3	33.5	35.2	34.0	33.0	
3.5-4.0	33.6	29.0	34.1	25.8	32.4	34.7	36.4	40.6	32.7	40.0	35.4	37.3	35.7	38.2	33.8	
4.5–5.0	27.4	25.9	32.2	29.3	35.7	30.1	35.8	38.2	33.4	35.2	38.3	38.2	36.5	36.4	43.3	
5.5-6.0 (High)	33.5	33.1	29.9	32.0	41.1	42.1	40.4	38.3	40.8	47.8	34.5	38.8	33.0	36.6	38.4	
Race/Ethnicity (2-year average): b																
White	35.0	32.9	32.5	32.6	34.1	37.2	38.5	39.5	37.6	37.2	38.8	38.9	37.8	37.8	39.8	
African American	14.1	15.1	17.5	17.1	17.9	24.9	20.4	17.6	21.5	22.2	22.1	22.0	23.0	23.7	25.3	
Hispanic	23.2	29.2	28.9	26.3	27.4	29.4	28.1	31.7	36.6	36.3	36.0	36.3	33.3	29.6	30.2	

TABLE 113 (cont.)

LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

					Perce	entage wi	ho used i	n last 30	days					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	<u>change</u>
Total	34.2	34.1	32.4	33.2	29.8	29.8	31.2	31.0	28.1	26.1	25.1	26.8	21.8	-4.9 ss
Gender:														
Male	33.7	36.2	33.8	35.2	31.9	31.1	32.3	31.8	29.2	26.0	25.6	26.7	20.0	-6.7 s
Female	33.9	31.4	30.7	30.9	27.3	28.6	30.4	29.8	27.6	26.3	24.1	27.2	23.3	-4.0
College Plans:														
None or under 4 years	39.7	37.5	38.0	40.6	34.9	29.5	30.0	33.6	25.3	27.8	20.5	29.3	21.4	-7.9
Complete 4 years	33.0	33.5	31.4	31.7	28.8	29.7	31.3	30.4	28.5	26.0	26.1	26.8	22.0	-4.8 s
Region:														
Northeast	40.0	41.2	37.1	37.7	38.5	38.0	41.8	33.4	29.7	35.9	29.6	28.7	24.4	-4.2
Midwest	35.2	38.1	33.4	34.7	31.1	30.4	27.9	32.5	30.9	23.6	26.3	30.1	22.3	-7.8 s
South	32.5	30.6	32.2	32.1	26.4	26.8	28.2	27.7	25.4	22.6	21.8	25.1	20.6	-4.5
West	30.9	29.8	28.7	29.3	27.6	28.2	31.7	32.1	28.8	26.9	27.0	25.2	21.6	-3.6
Population Density:														
Large MSA	34.4	37.4	37.1	38.7	30.1	34.3	36.5	35.7	29.9	26.8	25.7	28.3	21.1	-7.3 ss
Other MSA	36.3	31.7	29.2	30.9	31.9	29.2	32.4	30.8	29.0	25.9	24.8	23.7	22.0	-1.7
Non-MSA	30.2	34.1	34.1	31.7	24.2	24.7	20.7	24.9	23.7	25.8	24.9	30.7	22.8	-7.9 s
Parental Education: a														
1.0-2.0 (Low)	30.2	27.1	33.3	32.5	22.5	28.7	28.8	24.7	21.7	27.3	24.3	10.8	16.8	+6.0
2.5–3.0	36.7	33.7	30.8	28.1	33.3	28.9	31.7	29.9	28.9	24.4	22.2	27.9	19.1	-8.9 s
3.5–4.0	34.7	33.2	33.1	33.9	29.3	29.8	32.4	34.6	29.1	23.4	24.4	28.1	22.9	-5.2
4.5–5.0	33.8	37.3	30.3	36.8	30.5	29.5	31.9	34.2	28.1	28.9	29.9	30.0	25.0	-5.0
5.5-6.0 (High)	35.9	39.4	37.5	35.9	28.7	35.3	30.3	26.6	32.5	28.6	24.5	34.5	27.5	-7.0
Race/Ethnicity (2-year average): b														
White	39.5	37.5	35.2	33.8	33.0	31.9	32.5	32.5	32.2	30.4	28.2	30.3	29.6	-0.7
African American	23.0	21.6	23.7	29.4	27.4	22.8	26.7	27.1	21.6	19.2	17.6	16.3	15.3	-0.9
Hispanic	28.4	27.5	29.3	30.5	30.5	30.9	30.9	30.6	29.1	26.4	25.4	22.6	18.7	-3.8 s

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 114
LIQUOR: Trends in 2-Week Prevalence of <u>5 or More Drinks in a Row</u> by Subgroups in <u>Grade 12</u>

					Percen	tage rep	orting 5+	drinks in	a row or	n one or	more occ	asions				
	1975	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	1983	1984	<u>1985</u>	<u>1986</u>	1987	1988	<u>1989</u>	<u>1990</u>
Approximate weighted N =	_	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	19.8	19.9	22.0	22.8	23.0	21.3	23.8	22.0	21.3	19.6	21.4	20.5	18.2	20.0	16.8
Gender:																
Male	_	23.3	21.1	24.4	26.3	26.1	23.0	25.8	26.4	24.6	20.9	24.7	25.0	20.3	24.5	20.7
Female	_	16.1	18.5	19.6	19.8	20.2	19.7	21.9	17.8	18.2	18.2	18.6	16.2	16.6	15.7	12.8
College Plans:																
None or under 4 years	_	23.8	23.4	26.7	24.2	26.5	26.4	26.9	25.7	24.7	22.0	24.0	24.5	20.7	23.7	17.3
Complete 4 years	_	15.8	16.8	17.9	21.5	19.7	18.0	21.8	19.2	19.2	18.4	19.9	18.6	17.2	18.6	16.4
Region:																
Northeast	_	24.9	20.2	21.8	28.8	27.2	25.0	26.1	24.7	24.9	23.8	20.1	22.3	17.4	23.7	18.0
Midwest	_	22.1	23.3	24.0	23.0	23.7	22.9	27.5	24.0	24.1	19.3	25.9	21.9	23.1	21.4	17.7
South	_	16.0	16.4	22.5	20.6	22.1	18.0	19.6	20.7	20.2	17.0	19.1	18.7	15.2	18.6	15.4
West	_	14.8	19.2	16.2	18.5	18.2	19.2	20.1	17.0	15.3	19.8	19.6	19.6	17.2	17.5	16.5
Population Density:																
Large MSA	_	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9
Other MSA	_	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4
Non-MSA	_	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8
Parental Education: a																
1.0-2.0 (Low)	_	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0
2.5–3.0	_	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4
3.5–4.0	_	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0
4.5–5.0	_	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5
5.5-6.0 (High)	_	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4
Race/Ethnicity (2-year average): b																
White	_	_	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7
African American	_	_	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6
Hispanic	_	_	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9

TABLE 114 (cont.)

LIQUOR: Trends in 2-Week Prevalence of <u>5 or More Drinks in a Row</u> by Subgroups in <u>Grade 12</u>

				Pe	rcentage	reportin	g 5+ drin	ks in a re	ow on on	e or more	e occasio	ons				
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	<u>1993</u> 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	<u>1996</u> 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700	
Total	17.4	16.0	18.2	17.1	20.2	21.6	21.1	23.6	22.3	23.8	22.7	25.6	21.1	23.8	25.0	
Gender:																
Male	20.5	20.0	24.6	22.4	24.7	24.6	23.9	27.3	27.6	30.8	26.4	27.2	24.1	29.2	28.5	
Female	14.4	12.6	13.2	12.6	16.2	17.7	18.7	20.0	16.1	17.4	18.8	23.6	18.9	18.2	22.0	
College Plans:																
None or under 4 years	21.7	21.4	24.6	19.1	22.5	21.1	23.4	31.2	23.2	26.4	29.2	31.9	23.0	29.2	32.6	
Complete 4 years	15.8	14.1	16.5	16.6	19.2	21.4	20.6	21.7	21.9	22.9	20.7	23.7	20.5	22.1	23.7	
Region:																
Northeast	21.3	14.8	15.1	14.2	19.2	25.4	24.6	29.8	25.5	24.7	27.9	27.8	23.5	28.2	28.7	
Midwest	19.0	19.0	18.9	17.7	21.5	22.0	20.6	23.6	19.9	29.7	21.5	28.1	24.8	23.4	28.3	Ta
South	15.3	15.5	21.7	17.6	21.8	21.9	20.0	21.7	21.7	17.4	20.4	24.3	17.4	21.6	22.8	
West	15.2	13.7	13.6	18.0	16.4	16.3	20.5	22.3	23.6	26.1	24.3	22.7	20.7	23.4	21.2	
Population Density:																
Large MSA	16.4	15.6	16.8	16.1	19.3	19.5	23.0	23.9	21.4	26.6	23.6	25.8	20.0	20.7	25.3	
Other MSA	17.5	15.2	17.3	16.3	20.3	24.9	21.3	25.1	22.8	21.7	22.2	26.3	21.9	24.6	26.2	
Non-MSA	18.1	17.9	20.7	19.5	21.1	17.7	18.7	20.3	22.2	24.1	22.6	24.0	21.2	25.5	22.5	
Parental Education: a																
1.0-2.0 (Low)	19.9	15.9	20.7	14.4	15.2	14.7	16.7	23.9	25.5	24.4	15.2	18.4	17.9	17.8	18.5	
2.5-3.0	18.1	17.9	18.3	18.5	19.7	22.1	18.3	21.3	20.7	17.8	25.4	24.2	24.2	25.9	22.1	
3.5-4.0	18.6	15.9	19.7	16.2	20.7	20.4	23.3	25.4	23.6	25.8	21.8	24.4	21.1	26.2	23.5	
4.5–5.0	16.4	13.5	17.4	17.7	21.6	18.0	22.2	24.3	20.6	24.5	24.9	29.0	21.0	22.2	29.8	
5.5-6.0 (High)	13.3	16.5	16.0	18.8	22.0	31.3	23.5	23.0	22.8	30.4	22.4	31.0	21.0	20.3	28.7	
Race/Ethnicity (2-year average): b																
White	19.0	18.0	18.7	19.4	20.4	22.3	23.4	24.7	24.4	24.3	25.3	26.3	25.4	24.6	26.9	
African American	6.8	7.1	8.9	9.5	11.3	15.4	12.5	9.9	10.4	10.2	12.8	14.6	14.9	15.8	17.2	
Hispanic	13.4	19.4	18.1	16.8	18.1	18.9	20.0	22.2	24.3	25.2	24.0	24.0	21.1	18.9	20.6	

TABLE 114 (cont.)

LIQUOR: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

			Pe	rcentage	reportin	g 5+ drin	ks in a ro	w on on	e or more	e occasio	ons			
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	change
Total	23.3	22.9	22.1	21.5	20.3	18.3	22.1	21.0	18.2	16.7	14.6	18.8	12.9	-5.9 sss
Gender:														
Male	24.7	24.4	24.0	23.3	23.6	20.4	24.3	22.5	21.0	17.7	14.9	19.2	12.0	-7.1 ss
Female	22.0	21.5	20.3	19.3	15.9	16.0	19.8	19.2	15.6	15.7	13.8	18.2	13.9	-4.4
College Plans:														
None or under 4 years	27.1	26.5	29.3	28.5	28.9	21.5	23.0	26.5	19.0	21.1	12.4	22.1	15.6	-6.4
Complete 4 years	22.6	22.1	20.5	19.9	18.6	17.7	21.4	19.8	17.9	15.9	14.9	18.3	12.4	-5.9 sss
Region:														
Northeast	29.0	31.2	23.2	27.6	23.9	24.3	29.3	22.0	19.5	24.7	17.7	20.4	12.9	-7.6 s
Midwest	26.2	26.7	23.4	23.7	21.4	19.7	21.8	23.5	19.8	16.4	15.7	23.8	14.1	-9.7 ss
South	20.5	19.0	21.2	18.7	19.2	15.4	19.7	18.8	15.9	13.9	12.6	16.5	12.1	-4.5
West	19.8	19.0	21.3	17.3	18.2	17.6	20.9	20.9	19.4	16.0	15.3	16.6	13.1	-3.5
Population Density:														
Large MSA	22.6	26.0	24.0	21.9	22.3	22.4	26.7	24.4	18.5	18.0	15.4	19.0	11.7	-7.3 ss
Other MSA	25.0	21.4	20.3	21.8	20.8	17.7	21.4	19.9	18.8	16.4	14.2	16.6	13.5	-3.1
Non-MSA	21.0	21.6	23.8	20.1	16.2	14.0	16.8	19.2	16.5	15.6	14.6	22.8	13.7	-9.1 ss
Parental Education: a														
1.0-2.0 (Low)	19.1	18.8	16.9	23.8	15.7	17.3	17.3	20.6	11.5	15.2	17.4	6.4	12.1	+5.7
2.5–3.0	22.7	22.0	20.1	17.8	25.5	16.5	24.2	18.0	17.3	16.3	12.9	22.2	11.8	-10.4 ss
3.5-4.0	26.1	24.3	22.8	22.1	19.0	18.9	21.4	25.5	19.7	14.6	13.2	20.2	11.4	-8.8 ss
4.5–5.0	24.5	24.1	22.0	24.5	20.5	20.5	24.1	23.0	18.3	19.4	17.1	18.7	16.3	-2.4
5.5-6.0 (High)	20.3	24.1	25.5	20.0	18.3	18.1	19.8	15.8	24.0	16.6	13.7	22.7	14.5	-8.2
Race/Ethnicity (2-year average): b														
White	27.5	25.8	23.9	22.3	21.7	20.9	21.5	22.7	22.2	19.5	16.7	19.1	19.4	+0.2
African American	14.9	13.7	17.1	21.7	18.8	12.3	13.8	16.8	13.6	11.7	10.5	9.1	8.6	-0.5
Hispanic	18.4	17.6	19.1	20.5	21.0	21.6	22.5	21.6	17.5	17.4	16.2	14.2	13.2	-1.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 115
WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						P	ercentaç	ge who us	sed in las	st 30 day	S					
	<u>1975</u>	<u>1976</u>	1977	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	1983	1984	1985	<u>1986</u>	1987	1988 <sup>a</sup>	1989	1990
Approximate weighted N =	_	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	34.5	37.4	37.7	36.6	39.5	36.6	37.8	36.0	34.1	36.0	34.5	33.5	22.7	19.7	14.7
Gender:																
Male	_	34.1	35.5	34.8	33.9	38.1	35.3	35.6	33.8	30.3	34.2	30.8	29.3	20.7	18.9	16.1
Female	_	34.5	39.1	40.2	39.0	41.1	38.2	39.9	37.7	38.1	37.4	38.1	37.1	24.3	20.4	13.5
College Plans:																
None or under 4 years	_	31.5	33.1	33.8	33.8	37.1	32.8	36.3	34.5	33.7	34.6	31.5	28.2	19.7	18.6	11.9
Complete 4 years	_	38.0	41.4	41.5	38.5	41.0	39.1	39.5	37.2	34.0	37.3	36.2	35.7	24.0	20.5	16.0
Region:																
Northeast	_	45.2	42.6	47.5	45.3	48.0	51.6	51.4	46.0	41.5	43.9	32.0	35.6	27.7	22.1	15.0
Midwest	_	33.8	36.3	40.8	33.8	36.6	38.5	38.9	36.0	34.3	34.1	41.0	34.0	23.0	23.7	13.4
South	_	27.5	34.2	30.2	30.8	34.8	26.3	27.7	30.9	29.5	30.7	28.1	31.7	18.9	17.4	14.5
West	_	34.0	38.1	32.7	40.8	42.4	31.6	32.5	32.4	34.7	38.4	38.1	33.8	24.5	16.0	16.9
Population Density:																
Large MSA	_	46.6	47.0	45.6	44.2	46.9	46.0	46.3	45.0	36.7	40.7	36.6	35.3	27.6	20.6	15.3
Other MSA	_	33.0	36.5	36.8	36.0	42.1	34.6	36.6	32.4	34.0	36.4	36.0	34.9	22.0	20.5	16.8
Non-MSA	_	28.0	31.4	32.8	31.9	31.0	32.4	32.8	33.8	32.3	31.7	30.7	29.2	19.3	16.7	9.9
Parental Education: b																
1.0-2.0 (Low)	_	33.4	30.1	32.3	31.4	28.0	28.0	30.2	26.6	28.3	28.6	28.0	23.9	16.4	19.0	9.5
2.5–3.0	_	33.8	32.8	35.3	33.0	38.0	33.2	33.8	35.3	34.0	32.4	31.3	30.7	17.8	15.6	12.4
3.5–4.0	_	36.9	42.0	40.2	38.2	39.6	37.2	42.0	32.9	35.9	36.9	37.1	31.5	23.4	18.8	14.2
4.5–5.0	_	39.6	42.5	40.8	43.6	45.2	41.5	43.4	46.1	37.1	43.1	36.3	39.7	26.5	24.1	18.9
5.5-6.0 (High)	_	48.4	57.3	49.8	46.7	51.7	52.9	47.5	43.2	33.9	42.6	40.1	40.9	31.4	23.5	19.3
Race/Ethnicity (2-year average): c																
White	_	_	35.9	38.1	38.1	39.2	40.2	39.6	38.4	36.5	36.7	37.1	35.7	29.9	23.0	18.6
African American	_	_	36.2	30.8	27.4	27.9	24.9	26.0	28.9	24.4	21.3	21.0	21.8	18.4	15.0	11.2
Hispanic	_	_	42.9	38.5	30.0	31.0	27.3	26.8	28.3	30.9	37.0	37.4	33.0	22.2	15.0	14.2

TABLE 115 (cont.) WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						Perc	entage w	ho used	in last 30	) days						
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	
Approximate weighted N =		15,800		15,400			1	15,200	13,600	12,800		12,900	14,600	14,600	14,700	
Total	16.1	16.9	14.9	14.2	14.3	18.3	17.0	16.0	15.8	16.2	14.1	13.4	13.4	13.9	14.4	
Gender:																
Male	16.9	17.2	15.9	13.8	13.2	18.1	16.7	17.4	17.6	17.7	12.8	13.2	13.9	13.8	13.8	
Female	15.5	16.6	13.9	14.3	15.3	18.2	17.3	15.0	14.4	15.0	15.5	13.2	13.5	14.1	15.1	
College Plans:																
None or under 4 years	16.1	12.6	16.5	11.7	10.6	14.5	14.2	19.0	11.9	12.0	15.9	11.7	13.8	12.7	14.4	
Complete 4 years	16.4	18.4	14.4	14.8	15.3	19.3	18.0	15.3	16.8	17.1	13.3	13.7	13.5	14.5	14.3	
Region:																
Northeast	22.1	18.5	15.2	15.9	14.2	23.4	19.4	18.7	23.5	20.8	19.2	17.3	12.5	18.2	15.2	
Midwest	17.3	21.9	14.0	14.3	14.3	13.1	14.2	17.7	16.2	11.9	13.5	14.9	13.5	13.0	15.3	Table continued on
South	11.8	11.0	16.7	13.0	15.9	20.0	17.7	13.8	14.6	17.2	13.9	12.7	14.0	12.6	13.4	
West	16.2	18.3	13.0	15.0	11.6	16.8	17.1	15.9	11.2	15.9	11.3	9.8	13.5	12.8	14.1	
Population Density:																
Large MSA	13.9	17.0	20.0	16.8	14.8	19.5	18.2	19.5	17.4	20.4	16.7	17.2	11.1	12.5	16.9	
Other MSA	17.8	19.0	15.0	14.4	15.1	18.6	18.2	15.9	16.5	14.6	11.5	11.8	15.0	15.4	14.0	
Non-MSA	15.1	12.6	11.3	11.3	12.4	16.6	13.6	12.3	13.3	14.2	15.6	11.9	13.5	12.8	12.2	
Parental Education: b																
1.0-2.0 (Low)	10.8	11.7	14.3	9.8	13.5	9.7	13.1	14.6	16.7	19.7	12.3	14.8	9.4	12.8	10.9	
2.5–3.0	16.0	13.9	12.1	13.6	10.2	15.2	13.8	10.2	10.5	10.4	13.6	8.6	13.1	10.9	13.4	
3.5-4.0	16.4	15.4	14.3	11.7	10.5	17.9	15.7	15.1	11.5	14.6	10.2	13.1	13.1	15.6	12.2	
4.5-5.0	17.5	19.2	17.7	14.6	18.1	18.0	18.0	20.8	19.6	16.2	19.1	15.4	15.5	14.1	16.8	
5.5-6.0 (High)	19.4	27.1	16.5	23.8	24.9	27.2	29.1	20.0	29.8	29.1	16.7	19.0	15.8	18.3	18.2	
Race/Ethnicity (2-year average): c																
White	16.6	17.4	16.2	14.4	14.4	16.8	19.3	18.1	16.6	16.4	15.9	15.2	14.5	14.7	15.5	
African American	10.2	11.7	14.5	17.6	13.6	12.8	11.1	9.9	9.3	9.5	10.9	8.5	8.0	7.9	7.8	
Hispanic	10.9	14.9	14.3	14.2	15.0	13.8	13.5	13.4	16.4	17.9	12.9	9.4	12.2	13.5	13.1	

on next page.

TABLE 115 (cont.)
WINE: Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

					Perce	entage w	ho used	in last 30	days					
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	2015	<u>2016</u>	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	<u>change</u>
Total	12.6	14.1	14.0	11.5	9.3	10.2	10.6	11.5	11.5	8.4	9.5	10.8	9.7	-1.1
Gender:														
Male	11.6	12.1	13.4	12.0	8.7	9.2	8.8	10.2	10.7	5.5	6.8	8.7	5.9	-2.8
Female	13.6	15.3	14.4	10.9	10.2	11.0	12.5	12.7	12.6	10.2	11.6	12.7	13.6	+0.9
College Plans:														
None or under 4 years	13.9	13.1	17.3	10.3	10.6	8.3	5.6	8.9	12.9	8.0	7.5	9.7	4.9	-4.8 s
Complete 4 years	11.9	14.4	13.4	11.6	9.0	10.6	11.9	12.1	11.1	8.7	9.6	11.2	11.2	0.0
Region:														
Northeast	13.9	17.6	17.0	17.6	13.4	12.2	13.2	11.2	13.5	13.9	11.8	15.5	15.6	+0.1
Midwest	13.9	14.1	13.9	14.6	12.3	8.8	10.4	12.4	12.4	10.4	8.6	12.0	9.3	-2.7
South	12.1	13.9	13.3	7.6	6.8	10.0	9.3	10.5	10.9	6.3	8.6	9.2	10.2	+1.0
West	10.7	11.5	13.3	8.2	7.3	10.8	10.7	12.0	10.0	5.9	10.2	9.3	5.5	-3.8
Population Density:														
Large MSA	15.0	16.7	18.8	12.6	9.6	11.1	16.0	12.9	13.6	9.7	9.5	11.3	9.8	-1.5
Other MSA	12.8	13.5	13.0	12.3	10.3	11.0	9.4	10.3	11.5	7.6	8.2	11.2	8.7	-2.5
Non-MSA	8.9	11.3	11.0	8.3	6.6	7.4	5.6	12.2	8.7	7.9	12.4	9.4	11.7	+2.3
Parental Education: b														
1.0–2.0 (Low)	4.0	9.9	11.3	9.1	5.7	9.0	8.9	5.6	6.6	6.3	4.9	3.1	5.9	+2.8
2.5–3.0	10.6	9.0	11.9	8.8	9.5	5.8	9.0	10.5	7.9	7.2	7.0	9.3	6.7	-2.6
3.5-4.0	11.4	15.3	13.3	10.2	7.5	11.2	11.1	12.0	11.5	7.8	10.4	10.4	9.0	-1.4
4.5–5.0	15.5	16.4	13.7	13.6	12.3	8.8	11.6	14.9	10.8	9.4	10.6	11.7	12.1	+0.5
5.5-6.0 (High)	18.4	19.9	17.2	17.9	10.0	17.3	12.4	11.4	25.5	12.4	10.9	19.8	16.7	-3.1
Race/Ethnicity (2-year average): c														
White	15.6	15.4	14.3	12.8	11.5	10.8	11.5	12.2	13.0	12.1	10.6	11.8	13.3	+1.5
African American	6.1	6.5	11.2	11.6	7.6	8.8	10.4	10.5	7.7	5.4	6.7	6.6	4.5	-2.1
Hispanic	10.5	11.0	15.7	14.2	9.4	8.2	9.4	7.8	6.6	6.5	6.6	7.4	6.9	-0.4

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N i ndicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

aln the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 116

WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

					Percen	tage rep	orting 5+	drinks in	a row or	n one or	more occ	casions				
A	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	1988 <sup>a</sup>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	_	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	12.5	13.1	13.5	12.9	13.2	13.0	14.9	14.3	13.0	12.8	13.8	12.7	7.8	6.8	4.9
Gender:		44.5	40.0	440	40.0	40.0	40.0	40.0	444	40.0	40.0	40.4	40.0	7.0	0.4	
Male	_	14.5	13.9	14.3	13.9	13.3	12.2	12.6	14.4	12.6	12.9	12.4	12.3	7.8	6.1	5.5
Female	_	10.4	12.1	12.8	12.0	12.8	13.5	16.8	13.9	13.1	12.5	14.6	12.8	7.7	7.3	4.3
College Plans:			440	440	440	45.0	40.0	40.4	45.7	44.4	40.0	440	40.7	0.5	0.0	<b>5</b> 4
None or under 4 years	_	14.1	14.6	14.6	14.8	15.3	13.2	16.1	15.7	14.4	13.9	14.6	13.7	9.5	9.0	5.1
Complete 4 years	_	10.4	11.6	12.7	11.4	11.3	12.6	13.9	13.2	11.9	11.9	13.3	12.0	7.1	6.0	4.9
Region:																
Northeast	_	14.8	14.8	15.0	16.4	18.2	17.9	18.3	19.1	16.9	15.7	11.5	10.7	8.1	7.4	3.6
Midwest	_	13.8	12.9	15.4	12.6	12.2	13.9	16.0	13.6	14.1	12.3	17.2	13.5	7.8	6.9	3.9
South	_	10.1	11.8	11.7	11.8	11.6	10.0	12.4	12.5	11.0	10.9	12.9	13.1	6.8	6.7	5.4
West	_	10.8	13.4	10.9	10.4	11.6	9.8	12.0	13.1	10.9	13.3	12.2	13.2	9.5	6.3	7.0
Population Density:																
Large MSA	_	17.0	14.9	14.7	14.3	14.9	16.8	17.9	17.1	14.1	14.0	13.5	11.0	9.7	6.1	4.4
Other MSA	_	11.4	13.0	12.5	11.8	13.2	11.6	13.3	12.6	12.4	13.7	13.8	13.6	7.8	8.0	4.9
Non-MSA	_	10.7	11.8	14.0	13.1	12.0	11.8	14.7	14.4	13.0	10.6	13.9	12.9	6.0	4.8	5.2
Parental Education: b																
1.0–2.0 (Low)	_	14.0	16.4	14.9	12.7	10.2	13.7	15.7	12.1	12.8	11.9	14.7	12.2	8.2	8.3	4.6
2.5–3.0	_	13.4	12.0	13.7	12.4	15.4	13.1	12.1	16.8	14.6	12.1	13.6	13.0	7.2	6.2	5.4
3.5–4.0	_	11.7	14.0	12.2	10.3	13.0	13.4	16.7	12.4	15.0	13.1	14.9	12.1	7.5	6.3	5.4
4.5–5.0	_	12.4	9.4	12.9	16.5	12.7	11.2	14.9	14.4	10.2	13.4	12.2	13.3	7.7	8.0	4.3
5.5–6.0 (High)	_	14.4	15.4	15.0	16.5	12.0	14.2	21.2	12.5	7.7	14.5	12.9	12.3	9.5	5.0	4.4
Race/Ethnicity (2-year average): <sup>c</sup>																
White	_	_	12.0	13.1	13.4	13.1	13.4	14.4	14.8	13.8	13.3	13.6	13.4	10.4	7.5	6.0
African American	_	_	16.7	12.6	10.8	10.4	9.0	10.0	11.4	10.1	8.3	8.3	7.6	8.3	7.8	4.7
Hispanic	_	_	19.3	147	9.7	9.5	15.3	15.1	15.8	14.3	13.4	16.1	14 7	8.4	5.1	64

TABLE 116 (cont.)

WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

				Pe	rcentage	reportin	g 5+ drin	ks in a ro	w on one	e or more	e occasio	ons			
Approximate weighted N =	<u>1991</u> 15,000	1992 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	<u>1996</u> 14,300	<u>1997</u> 15,400	1998 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	5.8	5.7	5.8	4.9	5.8	7.0	6.4	6.4	5.0	5.4	5.9	4.7	5.0	4.9	5.4
Gender:															
Male	7.1	6.5	7.2	4.9	6.1	8.3	6.9	6.9	6.5	7.3	5.8	4.6	5.7	6.2	5.1
Female	4.6	4.5	4.4	4.9	5.6	5.7	6.1	5.8	3.8	3.6	5.3	4.1	4.3	3.5	5.6
College Plans:															
None or under 4 years	8.0	6.7	8.3	4.0	6.1	5.7	8.7	9.6	5.0	4.2	7.8	6.4	7.0	5.2	7.1
Complete 4 years	5.3	5.4	5.1	5.3	5.4	7.2	5.7	5.5	5.1	5.6	5.2	4.1	4.5	4.8	4.8
Region:															
Northeast	7.1	4.5	3.4	4.2	5.9	10.2	6.6	8.0	5.4	5.9	8.3	5.3	4.1	4.6	5.2
Midwest	5.6	7.2	4.6	4.6	6.3	5.7	5.5	6.4	6.4	5.3	4.5	4.6	5.5	5.1	6.1
South	5.1	4.1	8.2	4.7	6.9	6.7	7.2	5.7	5.0	5.2	5.8	3.9	5.4	4.9	5.1
West	6.0	7.1	5.3	6.5	3.0	6.1	6.3	6.5	3.2	5.5	6.1	5.8	4.5	4.9	5.3
Population Density:															
Large MSA	5.3	6.1	5.4	4.7	5.6	9.6	7.3	6.6	5.3	6.7	5.5	5.4	4.1	5.3	5.8
Other MSA	6.5	5.8	6.8	6.2	5.4	7.0	6.4	6.6	4.2	5.4	5.4	3.2	5.0	4.6	5.3
Non-MSA	4.9	5.1	4.5	3.2	6.6	4.9	5.6	5.8	6.2	3.9	7.0	6.7	5.9	5.0	5.2
Parental Education: b															
1.0-2.0 (Low)	5.7	8.0	12.4	4.9	6.1	4.2	5.2	10.7	8.2	11.3	8.0	8.2	6.8	6.4	5.6
2.5–3.0	6.8	4.8	5.3	3.8	5.6	6.5	6.8	6.0	3.5	3.7	5.6	4.6	6.6	4.4	5.3
3.5-4.0	6.5	4.1	4.3	5.5	4.2	7.1	4.8	5.7	4.1	5.3	4.7	4.5	4.6	6.5	4.6
4.5–5.0	4.9	6.1	6.0	3.7	5.6	4.4	8.1	7.6	4.7	4.8	7.2	4.4	4.1	4.1	4.7
5.5-6.0 (High)	3.5	8.3	4.4	8.4	11.1	13.0	8.2	4.5	8.8	6.5	5.5	4.4	4.2	4.2	8.1
Race/Ethnicity (2-year average): °															
White	5.3	5.5	5.0	4.8	5.2	6.2	6.9	6.5	5.4	4.7	4.8	4.9	5.0	4.9	5.1
African American	5.1	5.1	7.6	7.5	4.0	4.9	5.1	5.3	4.5	5.2	6.5	5.0	4.3	3.5	2.3
Hispanic	4.3	7.5	7.8	7.2	7.3	7.6	7.6	7.1	7.8	7.8	7.8	4.7	3.5	5.2	5.0

TABLE 116 (cont.)

WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

	a row on one or more	

Ар	proximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	<u>2011</u> 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total		4.4	5.1	5.0	4.0	3.7	3.5	3.9	4.0	4.9	4.5	3.6	4.4	3.6	-0.8
Gender:															
Male		4.9	4.7	4.8	3.6	3.5	4.0	3.3	4.4	4.5	2.9	2.8	3.5	2.1	-1.5
Female		4.1	5.6	5.1	4.3	3.7	2.9	4.1	4.2	5.4	5.7	3.8	4.9	5.0	+0.1
College Plans	s:														
None or und	der 4 years	6.0	5.4	7.7	3.4	4.6	3.8	1.6	3.7	7.5	4.1	3.1	4.2	2.3	-1.9
Complete 4	years	4.0	5.1	4.3	3.9	3.3	3.5	4.4	3.7	4.1	4.7	3.3	4.4	4.0	-0.5
Region:															
Northeast		5.6	8.3	4.2	5.8	5.7	4.8	5.7	4.7	5.8	5.6	5.4	8.2	4.6	-3.6
Midwest		5.0	4.9	6.2	5.1	4.3	2.2	4.0	3.9	6.2	5.5	4.2	4.5	3.5	-1.1
South		3.6	4.4	4.7	2.7	2.7	4.1	3.4	3.9	4.5	4.6	2.8	3.5	4.6	+1.0
West		4.1	4.1	4.8	3.0	3.0	3.3	3.3	3.8	3.7	2.6	3.2	3.3	1.6	-1.7
Population D	ensity:														
Large MSA		5.3	6.4	4.2	3.9	3.6	3.8	5.2	4.4	5.2	6.3	3.8	4.3	4.6	+0.3
Other MSA		3.9	5.3	5.4	4.2	4.2	4.0	3.5	3.2	4.8	3.4	2.6	5.1	2.4	-2.6 s
Non-MSA		4.1	2.9	5.2	3.8	2.4	2.1	3.0	5.4	4.8	4.1	5.7	3.2	4.4	+1.2
Parental Edu	cation: b														
1.0-2.0 (Lo	w)	4.3	2.3	5.1	4.3	2.4	2.5	2.1	2.2	3.6	4.2	4.3	1.5	4.0	+2.5
2.5-3.0		2.8	3.1	5.2	3.5	3.4	3.0	4.1	5.7	3.1	5.4	2.8	5.2	2.0	-3.2 s
3.5-4.0		3.6	6.5	5.2	3.6	3.2	3.3	3.3	5.4	6.6	4.2	4.6	4.1	2.3	-1.8
4.5-5.0		5.2	5.3	3.9	5.3	4.5	3.6	5.2	3.6	3.7	3.4	2.9	4.4	4.8	+0.4
5.5–6.0 (Hig	gh)	7.3	7.5	4.5	3.8	3.7	5.4	3.6	1.8	7.8	7.1	3.5	6.8	5.6	-1.2
Race/Ethnicit	ty (2-year average): c														
White		5.2	5.2	4.9	4.1	4.1	4.0	3.6	3.7	5.1	5.8	4.4	4.6	4.8	+0.2
African Ame	erican	1.7	2.6	3.8	4.5	4.3	3.6	4.0	4.4	4.1	2.9	3.7	3.1	1.5	-1.6
Hispanic		3.9	4.4	5.6	5.2	3.3	2.6	4.3	3.7	2.6	4.2	3.8	2.8	3.4	+0.6

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

aln the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 117
WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

	Percentage who used in last 30 days													
														2004–
	<u>1991</u>	1992	1993	<u>1994</u>	1995	<u>1996</u>	1997	1998	1999	2000	2001	2002	2003	2018
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	_
Total	14.8	15.1	16.1	15.9	15.3	17.5	15.9	15.6	16.5	14.8	15.3	12.9	12.4	_
Gender:														
Male	14.7	13.8	16.2	15.8	14.6	16.1	14.5	15.4	16.7	13.4	14.2	11.9	10.2	_
Female	14.6	16.2	16.0	16.2	15.6	18.7	16.9	15.8	16.3	15.9	15.9	13.3	14.3	_
College Plans:														
None or under 4 years	21.2	23.9	30.6	28.1	25.3	28.7	32.1	27.3	31.9	28.5	31.6	21.1	24.2	_
Complete 4 years	13.7	14.0	14.3	14.5	14.1	15.7	14.0	14.3	14.7	13.3	13.4	12.2	11.1	_
Region:														
Northeast	9.8	11.5	12.7	15.8	15.0	17.7	14.5	15.7	15.4	13.5	17.7	11.8	10.9	_
Midwest	14.5	14.6	15.7	15.0	13.9	18.5	16.1	16.2	17.6	17.0	14.8	12.1	15.5	_
South	17.4	18.1	17.8	16.7	17.0	17.5	16.6	16.2	18.6	14.6	16.8	15.0	12.7	_
West	14.8	14.2	17.3	15.9	13.9	16.0	15.3	14.0	12.7	13.3	11.4	11.3	8.9	_
Population Density:														
Large MSA	14.1	16.4	12.7	14.4	11.1	16.5	14.1	14.0	14.0	12.9	12.3	12.1	10.4	_
Other MSA	14.6	15.4	17.4	17.8	16.1	18.2	15.7	15.4	16.8	14.5	15.4	12.7	12.3	_
Non-MSA	15.8	13.4	17.3	13.2	15.8	17.3	17.9	17.6	18.9	17.5	18.3	14.4	14.7	_
Parental Education: a														
1.0-2.0 (Low)	19.3	18.7	18.5	21.1	20.4	21.7	22.2	20.7	30.2	22.1	25.1	22.8	18.2	_
2.5–3.0	16.9	16.6	19.9	17.7	17.6	20.2	19.2	17.8	19.7	18.1	19.7	14.3	15.4	_
3.5–4.0	12.9	16.8	17.2	18.4	15.7	18.4	16.8	16.6	17.5	14.3	19.6	15.7	15.8	_
4.5–5.0	13.9	11.8	13.5	12.0	12.5	15.4	11.9	13.6	13.1	11.8	9.0	9.8	8.1	_
5.5–6.0 (High)	13.5	12.5	11.9	14.7	13.2	13.8	13.5	14.2	11.4	12.1	8.2	9.0	8.7	_
Race/Ethnicity (2-year average): <sup>b</sup>														
White	_	14.4	15.1	15.1	14.9	16.4	16.5	15.4	16.0	15.9	15.0	14.0	12.6	_
African American	_	13.7	13.3	14.4	12.7	12.2	14.7	12.8	12.8	13.1	12.0	9.8	9.6	_
Hispanic		21.9	23.2	23.4	24.4	22.9	21.3	21.2	22.4	21.1	18.5	18.9	18.8	

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S1. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S1. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 118** WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 30 days													
Approximate weighted N =	<u>1991</u>	<u>1992</u> 14,800	1993 15,300	1994 15,800	1995 17,000	1996 15,600	1997 15,500	1998 15,000	1999 13,600	2000 14,300	2001 14,000	2002 14,300	2003 15,800	2004– 2018 —
Total	24.0	21.5	22.5	21.8	20.8	22.8	22.1	20.9	22.1	21.2	20.8	18.9	17.2	_
Gender:	24.0	21.0	22.5	21.0	20.0	22.0	22.1	20.5	22.1	21.2	20.0	10.5	17.2	
Male	23.9	19.8	20.5	21.9	19.4	21.8	20.6	19.0	20.5	19.6	19.8	16.0	14.8	_
Female	24.1	22.9	24.3	21.6	21.9	23.6	23.4	22.0	23.4	22.6	21.7	21.6	19.5	_
College Plans:														
None or under 4 years	31.1	26.7	27.6	28.4	28.9	33.0	28.4	29.3	33.4	32.6	31.6	30.2	23.8	_
Complete 4 years	22.5	20.5	21.4	20.4	19.4	21.0	21.1	19.3	20.3	19.5	19.1	17.2	16.2	_
Region:														
Northeast	23.2	19.0	24.1	21.6	18.5	20.3	21.0	19.1	21.7	18.8	21.5	18.1	18.7	_
Midwest	23.0	20.2	20.4	21.6	20.6	21.9	20.9	19.1	21.1	20.6	20.2	19.2	15.3	_
South	26.0	23.3	23.6	23.0	22.9	25.0	23.4	22.5	24.0	23.3	21.4	17.7	16.9	_
West	23.0	22.7	23.0	20.2	19.2	22.3	22.4	22.0	20.3	20.7	19.6	21.5	18.2	_
Population Density:														
Large MSA	23.1	21.6	21.5	21.2	16.4	19.3	20.2	16.9	23.1	19.8	19.9	17.4	17.0	_
Other MSA	23.8	22.3	22.4	22.6	20.7	23.7	22.2	21.9	21.3	19.7	19.7	18.7	16.4	_
Non-MSA	25.1	20.0	23.6	20.4	23.7	24.6	23.8	23.2	22.6	25.6	23.7	21.2	19.5	_
Parental Education: a														
1.0–2.0 (Low)	25.9	24.4	27.4	24.4	27.7	25.4	21.1	22.6	26.3	23.8	22.2	20.3	23.4	_
2.5–3.0	26.8	21.3	22.3	22.4	23.8	25.5	24.3	25.4	25.1	24.2	22.7	22.5	19.8	_
3.5–4.0	24.8	22.5	22.5	22.3	22.1	23.7	23.6	22.0	22.3	23.6	22.2	19.1	17.5	_
4.5–5.0	21.8	20.6	21.9	21.4	19.1	19.9	21.2	15.6	17.5	19.4	17.7	18.2	15.4	_
5.5–6.0 (High)	20.7	20.5	20.2	17.8	14.5	21.3	18.5	18.5	21.2	14.2	20.3	13.7	13.3	_
Race/Ethnicity (2-year average): b														
White	_	23.0	21.9	22.1	21.2	21.7	22.6	21.7	21.6	21.9	21.2	20.3	18.1	_
African American	_	19.9	19.3	20.6	20.0	16.6	16.1	17.6	17.0	18.1	18.3	15.3	15.2	_
Hispanic	_	26.3	26.2	24.7	24.9	28.1	28.0	24.1	24.5	25.2	24.5	22.3	21.7	

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S2. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S2. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

bTo derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 119
WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 30 days															
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	1988	<u>1989</u>	<u>1990</u>
Approximate weighted N =	_	_	_	_	_	_	_	_	_	_	_	_	_	16,300	16,700	15,200
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	36.6	29.4	26.2
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	_	_	30.8	25.5	22.7
Female	_	_	_	_	_	_	_	_	_	_	_	_	_	41.5	33.6	29.8
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	_	_	_	_	_	_	38.2	30.9	29.2
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	_	_	35.9	28.6	24.9
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	_	_	33.8	29.6	29.2
Midwest	_	_	_	_	_	_	_	_	_	_	_	_	_	37.9	33.0	28.6
South	_	_	_	_	_	_	_	_	_	_	_	_	_	33.6	25.7	22.9
West	_	_	_	_		_		_	_	_	_	_	_	42.7	31.3	24.7
Population Density:																
Large MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	37.7	28.6	25.9
Other MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	37.1	31.1	28.7
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	34.6	26.4	21.1
Parental Education: a																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	_	_	28.8	27.7	22.9
2.5–3.0	_	_	_	_	_	_	_	_	_	_	_	_	_	37.8	31.9	28.1
3.5-4.0	_	_	_	_		_		_	_	_	_	_	_	38.5	31.2	27.1
4.5-5.0	_	_	_	_		_		_	_	_	_	_	_	35.6	27.6	27.6
5.5-6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	_	_	36.9	23.5	21.5
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	_	_	_	_	_	_	35.4	29.6
African American	_	_	_	_	_	_	_	_	_	_	_	_	_	_	25.3	21.7
Hispanic													_		30.2	23.3

TABLE 119 (cont.)

WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 30 days														
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	24.3	21.9	19.4	22.2	20.6	20.7	20.7	20.1	18.4	17.6	19.0	19.3	14.6	14.4	14.1
Gender:															
Male	22.1	19.1	15.1	16.9	15.5	17.7	15.9	15.0	15.6	15.6	14.1	12.0	9.4	11.2	8.7
Female	26.3	24.3	22.8	26.4	25.1	23.6	24.4	23.5	20.6	19.5	22.2	24.2	18.9	17.2	18.7
College Plans:															
None or under 4 years	29.3	21.9	20.5	22.8	22.7	20.0	17.8	21.8	22.8	21.2	23.1	21.8	17.2	16.7	18.6
Complete 4 years	22.8	22.0	19.2	22.3	19.8	20.9	21.6	19.6	17.3	16.1	17.7	18.8	14.0	13.7	13.2
Region:															
Northeast	21.0	19.6	18.9	15.4	14.6	21.1	17.2	20.8	22.1	19.1	18.4	17.8	15.9	14.7	17.3
Midwest	26.1	23.7	19.4	26.0	19.8	20.9	21.5	18.6	19.2	18.3	19.5	20.9	15.5	11.0	13.7
South	23.1	21.3	20.6	23.4	24.1	23.2	22.9	20.6	18.7	16.8	19.7	20.6	13.9	16.7	13.5
West	26.3	22.2	17.8	19.8	20.4	14.9	18.9	20.4	13.7	16.7	17.5	16.6	13.1	14.6	12.7
Population Density:															
Large MSA	20.9	21.2	20.4	21.2	20.7	22.7	23.9	22.5	14.7	19.8	18.1	20.5	12.8	14.2	13.5
Other MSA	28.1	21.0	19.0	23.3	19.8	19.3	19.1	19.4	17.5	15.0	18.5	18.4	13.7	13.8	13.2
Non-MSA	20.6	24.1	19.4	21.3	21.8	21.6	20.1	18.7	23.4	19.4	20.6	19.4	18.0	15.6	16.7
Parental Education: a															
1.0-2.0 (Low)	24.0	25.7	20.8	23.5	21.1	18.2	13.2	19.8	19.0	24.8	19.3	18.4	13.7	21.3	15.6
2.5-3.0	25.4	21.2	17.1	26.4	20.4	26.8	20.0	21.4	23.2	16.3	22.8	19.6	18.1	17.2	19.8
3.5-4.0	27.2	22.9	24.4	20.9	22.0	19.5	23.0	23.3	17.3	21.8	18.5	17.8	14.7	16.4	12.6
4.5-5.0	22.1	18.0	17.2	22.8	21.0	17.0	21.4	17.9	14.3	13.6	19.0	19.4	12.4	9.1	13.6
5.5-6.0 (High)	18.0	24.5	16.4	14.6	16.7	20.8	21.0	16.6	19.9	16.8	14.6	23.5	10.1	13.3	9.8
Race/Ethnicity (2-year average): b															
White	26.7	23.7	21.3	21.5	21.9	20.8	21.2	21.0	19.6	18.0	18.2	19.7	16.8	13.1	13.6
African American	20.9	18.2	17.6	18.3	17.6	22.1	21.1	18.4	15.5	12.4	17.0	17.0	15.8	19.4	18.4
Hispanic	22.3	26.7	22.9	22.9	26.0	22.0	19.8	18.2	17.4	20.7	20.0	16.7	16.0	19.7	19.4

TABLE 119 (cont.)

WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

_	Percentage who used in last 30 days													
Approximate weighted N =	<u>2006</u> 14,200	2007 14,500	2008 14,000	2009 13,700	<u>2010</u> 14,400	<u>2011</u> 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	<u>2016</u> 11,800	2017 12,600	<u>2018</u> 13,300	2017-2018 <u>change</u>
Total	13.3	12.7	12.8	12.2	12.4	10.0	10.7	11.3	11.3	9.8	10.5	11.4	9.7	-1.6
Gender:														
Male	9.2	9.2	8.3	7.6	9.1	6.1	6.7	6.6	7.0	6.0	6.4	7.5	6.0	-1.5
Female	17.1	16.1	16.6	16.0	16.2	13.4	14.6	15.6	15.0	12.9	13.9	15.2	13.0	-2.1
College Plans:														
None or under 4 years	17.5	18.0	16.8	15.1	18.6	12.7	10.8	13.7	12.4	9.3	9.5	15.3	6.9	-8.4 s
Complete 4 years	12.3	11.5	12.0	11.4	11.3	9.5	10.8	10.8	10.8	10.2	10.5	10.6	10.7	+0.1
Region:														
Northeast	13.3	15.2	11.7	11.7	15.9	14.8	13.5	14.0	12.6	12.4	11.9	11.9	11.6	-0.3
Midwest	13.2	11.9	12.3	14.4	12.3	9.5	10.9	12.7	11.6	8.1	12.3	13.6	13.8	+0.1
South	14.6	13.0	15.1	10.1	12.8	9.8	9.4	9.3	12.6	10.0	9.7	10.8	10.3	-0.6
West	10.9	10.9	10.8	13.1	9.4	7.7	10.6	10.9	7.8	9.4	9.4	9.6	3.9	-5.7 ss
Population Density:														
Large MSA	10.7	11.9	11.4	11.9	12.2	11.6	11.8	12.2	10.7	9.5	8.6	10.3	9.1	-1.3
Other MSA	14.4	12.6	12.8	12.8	12.8	8.5	9.5	10.4	10.1	9.5	9.7	10.1	8.4	-1.7
Non-MSA	14.7	13.9	14.3	11.3	11.8	11.4	12.2	12.3	14.7	11.2	15.1	15.4	13.8	-1.6
Parental Education: a														
1.0-2.0 (Low)	12.8	18.4	17.3	17.4	13.5	12.8	10.6	11.0	10.0	13.0	9.9	8.4	5.9	-2.5
2.5–3.0	15.6	13.1	12.8	11.1	16.7	15.5	10.2	13.1	15.0	10.5	8.6	11.1	10.8	-0.4
3.5-4.0	15.3	13.5	12.3	14.5	11.6	7.7	11.9	12.7	11.3	9.8	12.0	14.7	9.2	-5.5
4.5–5.0	12.7	10.8	11.1	11.0	10.9	8.5	12.3	11.0	9.0	8.8	11.2	11.9	11.6	-0.3
5.5-6.0 (High)	9.8	11.7	12.5	7.1	10.7	8.2	6.5	9.6	11.9	9.0	7.5	7.8	11.8	+4.0
Race/Ethnicity (2-year average): b														
White	14.6	13.1	11.4	11.1	12.5	12.0	10.8	11.2	11.6	11.1	10.8	12.5	13.7	+1.2
African American	10.9	11.8	16.8	18.5	13.0	8.3	8.9	10.9	10.4	8.9	10.0	8.9	6.8	-2.0
Hispanic	13.8	13.0	12.9	13.2	12.7	10.5	9.7	11.2	11.0	10.0	8.7	8.8	7.0	-1.8

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 120
WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

	Percentage reporting 5+ drinks in a row on one or more occasions															
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	<u>1983</u>	1984	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	1989	<u>1990</u>
Approximate weighted N =	_	_	_	_	_	_	_	_	_	_	_	_	_	16,300	16,700	15,200
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	13.9	12.4	10.5
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	_	_	12.1	11.3	9.9
Female	_	_	_	_	_	_	_	_	_	_	_	_	_	15.1	13.5	11.3
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	_	_	_	_	_	_	17.7	16.2	14.2
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	_	_	12.5	10.7	9.0
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	_	_	14.7	14.3	10.0
Midwest	_	_	_	_	_	_	_	_	_	_	_	_	_	14.2	13.1	12.0
South	_	_	_	_	_	_	_	_	_	_	_	_	_	11.2	11.2	9.3
West	_	_	_	_	_	_	_	_	_	_	_	_	_	17.4	12.0	11.0
Population Density:																
Large MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	14.2	11.7	10.0
Other MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	15.6	12.4	11.0
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	_	_	10.7	13.3	9.9
Parental Education: <sup>a</sup>																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	_	_	13.9	9.2	10.7
2.5-3.0	_	_	_	_	_	_	_	_	_	_	_	_	_	16.6	13.8	13.3
3.5-4.0	_	_	_	_	_	_	_	_	_	_	_	_	_	13.6	14.9	9.3
4.5–5.0	_	_	_	_	_	_	_	_	_	_	_	_	_	11.7	10.5	11.3
5.5-6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	_	_	11.4	7.4	6.3
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	_	_	_	_	_	_	13.6	12.3
African American	_	_	_	_	_	_	_	_	_	_	_	_	_	_	13.0	9.9
Hispanic	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.5	6.0

TABLE 120 (cont.)

WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

	Percentage reporting 5+ drinks in a row on one or more occasions														
Annual track with the IN	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>
Approximate weighted N =		15,800	16,300	15,400	15,400	1	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	,
Total	10.2	10.4	8.5	8.9	9.0	8.4	9.4	9.5	7.7	8.8	9.7	10.0	7.1	7.5	7.2
Gender:															
Male	10.0	10.2	7.3	7.4	6.7	6.9	6.7	7.0	7.0	9.4	6.2	7.2	5.4	7.5	4.2
Female	10.2	10.3	9.5	10.0	10.8	9.7	11.3	11.0	7.8	8.4	11.4	11.4	8.2	8.0	9.7
College Plans:															
None or under 4 years	13.5	11.1	10.8	10.9	12.1	8.8	10.1	9.9	10.2	12.1	14.8	13.7	8.9	10.8	11.4
Complete 4 years	9.2	10.1	8.0	8.6	8.0	8.3	9.2	9.5	7.0	7.4	8.2	9.2	6.7	6.8	6.2
Region:															
Northeast	7.6	8.8	6.5	5.5	5.5	9.8	8.2	9.6	8.9	10.1	10.2	9.8	8.0	7.5	10.7
Midwest	10.9	12.0	8.0	9.9	7.0	9.2	9.7	7.3	7.0	10.8	8.9	12.0	8.8	6.4	6.6
South	8.8	10.3	11.1	9.3	11.5	8.7	9.7	10.5	8.8	5.9	10.9	9.6	6.7	8.6	6.6
West	13.2	9.7	6.2	10.0	10.4	4.8	9.7	10.2	5.6	10.1	8.4	8.4	5.0	7.1	5.7
Population Density:															
Large MSA	7.9	11.8	7.9	8.5	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	7.2	7.0
Other MSA	12.4	9.2	8.7	8.8	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	7.0	7.4
Non-MSA	8.2	11.7	8.6	9.6	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	8.9	7.1
Parental Education: a															
1.0-2.0 (Low)	12.5	13.1	12.2	11.4	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3
2.5-3.0	10.9	9.5	6.9	10.4	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9
3.5-4.0	12.0	11.1	11.1	8.8	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2
4.5-5.0	9.2	8.8	7.4	9.2	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8
5.5-6.0 (High)	3.7	10.6	5.6	4.8	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2
Race/Ethnicity (2-year average): b															
White	10.7	10.3	9.5	8.6	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9
African American	9.2	8.7	8.6	8.6	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5
Hispanic	9.8	14.5	13.5	13.1	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4

TABLE 120 (cont.)

WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

	Percentage reporting 5+ drinks in a row on one or more occasions													
	2000	2007	2000	2000	2040	2044	2042	2042	2014	2015	2016	2017	2018	2017-2018
Approximate weighted N =	2006 14.200	2007 14,500	2008 14,000	2009 13,700	<u>2010</u> 14.400	2011 14,100	2012 13,700	2013 12,600	<u>2014</u> 12,400	12,900	<u>2016</u> 11,800	12,600	13,300	<u>change</u>
Total	7.1	5.8	7.3	6.2	6.4	4.9	5.4	5.3	5.8	5.0	4.3	6.3	5.0	-1.3
Gender:														
Male	6.1	4.8	4.5	3.5	5.7	3.6	3.0	4.1	4.1	2.5	2.2	4.4	2.8	-1.6
Female	8.0	7.0	9.6	8.7	7.0	6.1	7.2	6.4	7.2	6.8	5.6	8.1	6.5	-1.5
College Plans:														
None or under 4 years	11.9	11.1	8.2	9.4	9.9	6.2	6.7	7.9	6.2	5.4	5.2	8.8	6.9	-1.9
Complete 4 years	6.0	4.7	7.0	5.6	5.6	4.5	5.1	4.6	5.4	5.0	3.9	5.7	4.6	-1.1
Region:														
Northeast	6.9	6.1	7.4	5.9	7.5	9.4	6.1	6.0	5.0	4.5	5.5	8.6	5.2	-3.4
Midwest	7.3	6.0	8.1	7.8	6.1	5.0	4.6	6.9	5.4	4.6	7.7	8.1	6.5	-1.7
South	8.3	5.7	8.4	4.9	7.3	4.6	6.1	3.9	6.5	5.5	2.8	5.2	5.3	0.0
West	5.1	5.5	4.6	6.7	4.3	2.5	4.9	5.0	5.6	5.1	3.1	4.9	3.2	-1.7
Population Density:														
Large MSA	6.4	5.3	6.3	4.8	7.1	4.9	6.8	6.3	5.3	4.8	3.6	6.7	5.8	-0.8
Other MSA	6.6	6.4	6.7	6.6	6.5	4.0	3.8	4.0	5.1	5.3	3.9	6.0	4.0	-2.0
Non-MSA	9.1	5.3	9.4	7.2	4.9	7.2	6.8	7.0	7.7	4.8	6.3	6.6	6.1	-0.4
Parental Education: a														
1.0-2.0 (Low)	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	5.5	7.6	1.0	4.1	7.5	+3.4
2.5-3.0	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	6.4	5.3	3.7	8.0	5.4	-2.6
3.5-4.0	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	6.9	4.6	5.8	8.2	2.7	-5.5 ss
4.5–5.0	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	4.5	4.5	5.6	6.3	4.6	-1.8
5.5-6.0 (High)	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	6.0	5.3	2.5	3.6	7.0	+3.5
Race/Ethnicity (2-year average): b														
White	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	6.4	5.9	4.7	6.3	6.9	+0.6
African American	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	3.8	4.4	6.1	3.4	1.8	-1.6
Hispanic	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	5.2	5.7	4.1	4.5	5.7	+1.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 121
FLAVORED ALCOHOLIC BEVERAGES:

# Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

						ı	Percenta	ge who ι	ised in la	st 30 day	/S						2017-
	1991–																2018
Annual invate we interest Al	2003	2004 17.000	2005 16.800	<u>2006</u>	2007 16.100	2008 15.700	2009 15.000	<u>2010</u>	2011 16.000	2012 15.100	2013 14.600	2014 14.600	2015 14.400	2016 16.900	<u>2017</u>	2018 14.000	<u>change</u>
Approximate weighted N =	_	,	-,	16,500	-,	-,	-,	15,300	-,	-,	,	,	,	-,	15,300	,	.0.5
Total	_	14.6	12.9	13.1	12.2	10.2	9.5	9.4	8.6	7.6	6.3	5.7	5.5	4.0	4.4	4.9	+0.5
Gender:		40.7	44.4	40.0	40.4	0.0	0.4	0.0	0.0	0.4	<b>5</b> 0	- 4	5.0	0.5	0.7	0.0	.00
Male	_	12.7	11.4	10.8	10.4	9.2	9.1	8.3	8.3	6.1	5.8	5.1	5.2	3.5	3.7	3.9	+0.2
Female	_	16.3	14.4	15.3	13.4	10.9	9.7	10.3	8.6	9.1	6.7	5.9	5.8	4.5	5.2	6.1	+0.9
College Plans:		00.4	0.4.0	05.0		040	40.0	40.0		40.0	446	40.0	40.4				
None or under 4 years	_	28.1	24.9	25.9	23.8	24.0	18.3	19.6	14.4	19.9	14.3	13.8	10.4	7.5	9.8	6.0	-3.8
Complete 4 years	_	13.3	11.8	11.8	11.1	9.0	8.7	8.6	8.3	6.7	5.8	5.1	5.2	3.7	3.8	4.9	+1.1
Region:																	
Northeast	_	14.9	11.0	12.2	9.7	9.2	8.8	9.2	5.4	7.2	4.7	4.9	4.2	2.3	2.0	4.8	+2.8
Midwest	_	16.2	12.6	12.9	12.0	10.5	9.1	8.2	7.8	5.2	6.3	5.6	5.5	4.0	4.4	4.7	+0.2
South	_	15.1	14.6	14.3	14.0	12.6	11.8	11.3	9.6	9.2	7.4	4.7	6.6	4.8	4.5	5.1	+0.6
West	_	11.7	11.9	12.0	10.9	7.2	6.7	7.6	10.4	7.6	5.9	7.8	4.5	3.7	5.9	5.0	-0.9
Population Density:																	
Large MSA	_	14.4	11.5	12.6	10.6	11.1	7.2	8.5	6.4	6.8	5.7	4.9	4.5	3.2	3.8	4.0	+0.2
Other MSA	_	14.2	14.0	13.0	12.4	9.7	9.7	10.0	9.7	8.0	7.2	5.3	6.0	4.0	4.5	5.6	+1.0
Non-MSA	_	15.6	12.8	13.9	14.2	10.2	12.0	9.0	9.6	8.2	5.5	7.4	5.8	5.1	4.9	4.9	0.0
Parental Education: a																	
1.0-2.0 (Low)	_	19.5	19.5	18.7	21.1	19.3	14.7	11.2	12.7	11.7	12.3	9.5	11.5	10.0	7.7	6.0	-1.7
2.5–3.0	_	17.5	18.0	18.7	17.5	14.4	13.1	13.4	12.1	11.7	8.7	8.4	5.2	4.4	5.1	6.4	+1.3
3.5–4.0	_	17.8	16.2	13.4	12.3	11.7	11.4	10.5	10.3	7.8	7.9	7.0	6.4	3.4	4.9	5.6	+0.7
4.5–5.0	_	11.8	10.3	8.5	9.8	7.2	7.4	8.0	6.2	5.4	5.6	3.3	3.8	3.6	3.4	4.5	+1.1
5.5-6.0 (High)	_	11.5	7.3	9.9	7.1	6.5	4.7	4.9	6.2	4.7	2.8	4.1	4.0	2.1	3.1	4.5	+1.4
Race/Ethnicity (2-year average): b																	
White	_	_	13.8	12.6	12.1	11.1	9.8	9.0	8.5	7.4	6.4	5.5	5.1	4.4	3.7	4.2	+0.5
African American	_	_	12.0	11.0	10.1	9.2	8.5	8.0	7.7	8.8	7.3	4.2	4.3	3.9	3.8	3.2	-0.5
Hispanic	_	_	17.0	17.6	16.7	13.9	11.8	11.7	11.4	10.8	9.1	7.5	7.1	6.6	5.5	5.6	+0.1

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001, '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases.

See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1. In 2011 Skyy Blue and Zima were deleted from the list of examples.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 122
FLAVORED ALCOHOLIC BEVERAGES:

# Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

							Percenta	ge who u	ised in la	st 30 day	/S						2017-
	1991–																2018
Annual transfer of a superior of Al	2003	2004	2005	<u>2006</u>	<u>2007</u>	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	4.4
Total	_	25.1	23.1	24.7	21.8	20.2	19.0	19.4	15.8	16.3	15.5	14.0	12.8	11.0	12.9	11.8	-1.1
Gender		04.5	;	00.4	40.0	47.0	47.0	40.0	40.0	40.5	40.7	40.4	40.5			44.0	4.0
Male	_	24.5	20.3	22.4	18.8	17.0	17.0	18.8	13.8	13.5	13.7	12.4	10.5	8.4	9.9	11.2	+1.3
Female	_	25.6	25.8	26.9	24.7	22.9	20.9	19.8	17.7	18.5	16.7	15.7	14.9	13.4	15.7	12.5	-3.2
College Plans:																	
None or under 4 years	_	32.5	33.8	37.2	32.0	29.1	30.0	28.6	25.7	21.0	19.1	20.5	18.9	17.2	17.4	14.5	-2.9
Complete 4 years	_	24.2	21.7	23.1	20.6	19.1	17.8	18.4	14.7	15.8	15.0	13.3	12.3	10.3	12.2	11.6	-0.6
Region:																	
Northeast	_	26.6	22.4	26.3	23.2	22.2	18.6	18.3	17.5	19.4	15.6	14.4	12.4	11.0	13.9	13.4	-0.6
Midwest	_	22.5	23.4	23.5	21.2	20.0	17.6	19.1	14.3	14.5	13.9	12.3	12.6	9.0	11.0	10.6	-0.4
South	_	25.6	23.7	24.5	20.0	20.3	21.1	19.6	16.6	17.4	17.2	14.5	15.0	12.6	14.1	13.5	-0.7
West	_	26.5	22.5	25.4	23.6	19.0	17.9	20.3	15.1	14.0	15.0	14.8	9.7	10.6	12.5	9.1	-3.4
Population Density:																	
Large MSA	_	22.4	22.0	23.1	21.5	19.0	17.6	20.2	15.3	17.4	13.8	13.7	12.3	10.5	13.7	11.2	-2.5
Other MSA	_	26.1	23.1	25.5	21.4	20.9	19.6	19.0	15.8	16.2	16.4	14.5	12.4	9.7	12.5	12.5	0.0
Non-MSA	_	26.5	24.4	25.5	23.0	20.5	19.7	18.9	16.5	14.7	15.7	13.2	14.5	15.6	13.0	11.2	-1.8
Parental Education: a																	
1.0-2.0 (Low)	_	27.3	24.9	25.8	25.5	21.8	23.5	26.4	17.6	17.0	16.4	14.6	13.6	9.3	15.5	14.8	-0.6
2.5–3.0	_	30.5	28.1	27.9	25.8	23.4	23.3	24.5	19.2	17.3	19.9	16.6	17.7	14.3	13.7	11.2	-2.5
3.5-4.0	_	25.0	23.6	28.5	23.1	21.2	18.8	20.2	17.5	15.6	16.3	16.2	13.6	11.4	13.0	12.6	-0.3
4.5–5.0	_	24.9	22.6	19.9	19.7	19.0	18.2	15.7	13.6	16.7	14.6	11.5	11.2	12.1	12.5	11.4	-1.1
5.5-6.0 (High)	_	20.8	17.3	23.7	16.9	16.2	14.3	15.4	12.3	17.5	10.5	13.3	10.9	7.8	12.3	10.3	-2.0
Race/Ethnicity (2-year average): b																	
White	_	_	25.7	25.1	24.0	21.8	20.0	19.0	17.4	16.5	16.5	15.8	14.8	13.2	13.2	14.1	+0.9
African American	_	_	16.1	15.5	15.9	15.2	14.2	14.8	14.0	10.7	9.6	8.1	8.1	8.4	7.0	6.5	-0.5
Hispanic	_	_	29.0	28.6	26.1	23.1	23.0	24.2	22.6	17.7	16.7	16.1	14.3	12.5	12.2	12.5	+0.3

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S2. In 2011 Skyy Blue and Zima were deleted

from the list of examples.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 123
FLAVORED ALCOHOLIC BEVERAGES:

# Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						I	Percenta	ge who u	sed in la	st 30 day	rs						
	1001																2017-
	1991– 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018 change
Approximate weighted N =	_	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	onango
Total	_	31.1	30.5	29.3	29.1	27.4	27.4	24.1	23.1	21.8	21.0	19.9	20.8	18.3	20.2	18.1	-2.2
Gender:																	
Male	_	28.9	28.3	26.0	25.4	25.8	27.3	22.6	21.8	19.9	20.1	16.8	19.1	17.4	17.7	18.2	+0.5
Female	_	33.2	33.2	32.3	32.8	29.0	27.1	25.0	24.6	23.3	22.0	21.9	22.6	18.6	21.7	18.1	-3.6
College Plans:																	
None or under 4 years	_	34.7	34.2	32.9	37.0	29.0	35.6	26.8	26.2	22.6	25.8	22.8	24.8	18.1	20.3	20.3	0.0
Complete 4 years	_	30.3	29.6	28.7	27.5	26.9	25.9	23.9	22.4	21.5	19.9	19.3	20.0	18.1	20.3	17.9	-2.5
Region:																	
Northeast	_	33.5	38.1	29.4	36.0	33.5	34.0	31.3	25.7	20.6	23.6	22.6	24.9	21.8	22.9	20.1	-2.8
Midwest	_	35.3	33.4	32.2	28.5	25.8	26.7	23.7	23.1	22.4	18.3	24.3	19.9	18.3	25.1	17.7	-7.4
South	_	25.9	25.9	27.0	28.8	26.9	27.2	23.3	22.1	19.3	19.9	17.6	21.3	16.9	20.0	18.3	-1.7
West	_	32.1	27.9	29.9	24.9	25.8	23.2	20.9	22.9	24.8	23.9	17.6	18.0	18.5	14.5	16.8	+2.3
Population Density:																	
Large MSA	_	27.0	29.9	32.3	30.8	28.7	27.0	26.4	25.3	22.5	23.4	18.7	21.9	18.2	17.9	16.7	-1.2
Other MSA	_	33.4	29.9	27.7	27.8	25.8	28.8	23.8	23.8	22.2	20.0	19.9	19.3	17.0	19.1	17.7	-1.3
Non-MSA	_	30.9	32.2	28.5	29.5	29.1	24.7	21.8	18.6	19.5	20.1	21.2	22.2	21.2	26.5	21.3	-5.3
Parental Education: a																	
1.0-2.0 (Low)	_	28.5	22.2	30.3	34.0	24.9	26.8	13.8	24.8	19.7	21.8	21.0	20.9	11.9	19.0	13.0	-6.0
2.5–3.0	_	31.0	33.3	30.6	32.4	28.3	28.2	27.8	26.1	24.0	24.8	21.5	19.0	20.5	19.5	18.9	-0.6
3.5–4.0	_	33.6	31.7	30.9	29.9	28.4	28.7	24.0	25.3	22.9	20.7	22.0	22.6	17.3	21.4	18.0	-3.4
4.5–5.0	_	29.4	30.2	28.8	27.6	27.6	24.4	26.1	20.0	21.7	20.0	16.1	23.9	21.1	19.1	22.6	+3.5
5.5-6.0 (High)	_	29.8	30.2	26.4	25.3	26.6	28.4	23.4	20.5	19.7	19.1	19.9	17.8	15.9	24.0	18.3	-5.7
Race/Ethnicity (2-year average): b																	
White	_	_	33.3	31.4	30.6	31.1	29.9	27.0	24.6	22.9	22.2	22.1	22.4	22.7	23.5	23.4	-0.1
African American	_	_	17.1	20.9	21.6	19.8	19.3	20.0	20.0	17.2	14.2	16.1	14.1	10.9	10.5	13.5	+3.0
Hispanic	_	_	28.6	32.2	34.5	26.2	25.2	24.7	25.5	26.8	21.9	16.3	18.6	21.4	16.5	13.9	-2.7

Source. The Monitoring the Future study, the University of Michigan.

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; N is one sixth of N indicated in Table S3. In 2011 Skyy Blue and Zima were deleted from the list of examples.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

# TABLE 124 ALCOHOLIC BEVERAGES CONTAINING CAFFEINE:

# Trends in **Annual** Prevalence of Use by Subgroups in **Grade 8**

Demonstrate when were disclosed 40 months

				Percentag	je who us	ed in last	12 month	IS		
										2017-
	1991-									2018
	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	_	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	_	11.8‡	10.9	10.2	9.5	8.4	6.5	5.6	6.0	+0.4
Gender:										
Male	_	9.4‡	9.6	8.4	9.2	7.6	6.1	4.6	5.4	+0.8
Female	_	13.8‡	11.9	11.7	9.6	8.9	6.9	6.4	6.7	+0.4
College Plans:										
None or under 4 years	_	22.3‡	19.1	21.6	22.9	19.3	15.8	10.4	11.9	+1.4
Complete 4 years	_	11.0‡	10.2	9.4	8.4	7.6	5.7	5.2	5.3	+0.1
Region:										
Northeast	_	10.4‡	8.7	11.5	6.7	7.4	4.2	2.6	5.5	+2.9 s
Midwest	_	10.3‡	8.6	8.7	10.3	8.6	6.7	4.4	5.1	+0.7
South	_	12.9‡	12.4	11.4	9.0	7.7	6.6	6.1	5.6	-0.5
West	_	12.5‡	12.3	9.1	11.3	10.3	7.9	7.9	8.2	+0.3
Population Density:										
Large MSA	_	9.8‡	10.6	9.6	7.8	7.3	5.3	5.7	7.0	+1.3
Other MSA	_	13.4‡	10.9	10.5	9.6	7.8	6.6	5.3	5.9	+0.6
Non-MSA	_	11.4‡	11.3	10.5	11.4	11.1	8.4	6.1	4.7	-1.4
Parental Education: a										
1.0-2.0 (Low)	_	19.0‡	13.8	13.4	13.8	12.5	9.9	8.7	8.7	-0.1
2.5-3.0	_	17.3‡	14.4	11.1	12.6	8.4	7.4	6.6	8.2	+1.6
3.5-4.0	_	13.8‡	13.3	13.1	10.9	11.5	8.7	7.2	6.6	-0.6
4.5-5.0	_	8.3‡	8.9	8.2	7.1	6.5	5.4	3.4	4.8	+1.4
5.5-6.0 (High)	_	7.0‡	6.9	8.8	6.5	4.8	4.8	4.4	4.2	-0.1
Race/Ethnicity (2-year average): b										
White	_	_	_	9.0	9.6	9.2	7.2	5.3	4.8	-0.5
African American	_	_	_	7.3	5.9	5.6	4.8	3.7	4.2	+0.6
Hispanic	_	_	_	14.5	11.5	9.4	8.5	7.5	7.1	-0.3

Source. The Monitoring the Future study, the University of Michigan.

Notes.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates some change in the question. See relevant footnote for that drug. See relevant figure to assess the impact of the wording changes. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. In 2012 the question text was changed from "...had an alcoholic beverage mixed with an energy drink (like Red Bull)." The data in 2011 and 2012 are not comparable due to this question change. Data based on one of four forms; N is one third of N indicated in Table S1.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to

TABLE 125
ALCOHOLIC BEVERAGES CONTAINING CAFFEINE:

# Trends in **Annual** Prevalence of Use by Subgroups in **Grade 10**

			Perce	ntage who	o used in	last 12 m	onths			
•	1991–									2017– 2018
	<u>2010</u>	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	_	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	22.5‡	19.7	16.9	14.3	12.8	10.6	9.9	9.8	-0.1
Gender:										
Male	_	20.4‡	19.7	17.0	13.8	12.8	10.6	9.5	11.0	+1.5
Female	_	24.7‡	19.8	16.7	14.7	12.7	10.8	10.2	8.3	-2.0
College Plans:										
None or under 4 years	_	34.1‡	29.9	26.7	23.9	21.4	19.5	18.2	17.9	-0.3
Complete 4 years	_	21.2‡	18.7	15.9	13.2	11.9	9.7	9.0	8.5	-0.5
Region:										
Northeast	_	26.4‡	19.9	18.4	12.2	14.2	11.0	9.4	8.8	-0.6
Midwest	_	17.4‡	18.5	15.5	13.4	12.2	9.1	8.4	9.6	+1.2
South	_	22.9‡	19.5	16.6	14.9	12.4	10.7	8.7	9.0	+0.3
West	_	24.7‡	21.1	17.7	16.0	12.9	11.6	13.1	12.2	-0.9
Population Density:										
Large MSA	_	21.7‡	17.4	14.0	13.8	11.6	10.0	9.1	10.9	+1.8
Other MSA	_	23.2‡	20.1	18.2	13.4	13.5	10.4	10.0	9.6	-0.4
Non-MSA	_	22.1‡	21.8	17.9	17.3	13.1	12.5	10.6	8.7	-1.9
Parental Education: a										
1.0–2.0 (Low)	_	33.8‡	23.7	21.7	16.8	18.4	12.4	12.7	13.5	+0.8
2.5–3.0	_	25.6‡	23.2	20.9	18.2	14.6	14.7	10.7	12.2	+1.5
3.5–4.0	_	25.5‡	22.8	19.7	16.2	14.1	11.6	10.3	10.7	+0.3
4.5–5.0	_	17.1‡	18.8	13.4	12.8	11.5	8.8	8.9	7.1	-1.7
5.5-6.0 (High)	_	17.0‡	12.4	12.7	9.8	10.7	8.6	8.7	8.5	-0.2
Race/Ethnicity (2-year average): b										
White	_	_	_	19.3	17.3	15.2	13.5	12.1	11.0	-1.0
African American	_	_	_	10.4	7.6	7.2	6.2	5.2	5.2	0.0
Hispanic	_	_	_	20.3	16.6	13.9	11.4	10.7	10.8	+0.1

Source. The Monitoring the Future study, the University of Michigan.

Notes.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates some change in the question. See relevant footnote for that drug. See relevant figure to assess the impact of the wording changes. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2012 the question text was changed from "...had an alcoholic beverage mixed with an energy drink (like Red Bull)." The data in 2011 and 2012 are not comparable due to this question change. Data based on one of four forms; N is one third of N indicated in Table S2.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to

# TABLE 126 ALCOHOLIC BEVERAGES CONTAINING CAFFEINE:

# Trends in **Annual** Prevalence of Use by Subgroups in **Grade 12**

			Perce	ntage who	o used in	last 12 m	onths			
•	1975–									2017– 2018
	<u>2010</u>	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =	_	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	26.4‡	26.4	23.5	20.0	18.3	17.0	16.9	14.7	-2.2
Gender:										
Male	_	26.6‡	28.8	26.9	21.7	19.6	19.0	18.7	15.9	-2.8
Female	_	25.9‡	23.7	20.1	18.5	17.4	14.4	15.3	12.9	-2.3
College Plans:										
None or under 4 years	_	29.4‡	28.7	29.7	23.7	22.5	18.3	19.9	17.7	-2.2
Complete 4 years	_	25.6‡	25.3	22.0	19.1	17.4	16.3	16.0	13.8	-2.2
Region:										
Northeast	_	29.7‡	28.7	23.6	22.5	21.1	17.4	21.5	14.5	-7.0 ss
Midwest	_	26.6‡	30.2	23.1	23.0	18.5	18.5	18.6	15.2	-3.4
South	_	23.8‡	21.9	22.3	17.9	15.5	14.5	15.1	14.4	-0.7
West	_	27.8‡	26.4	25.6	18.7	20.6	19.9	15.4	14.9	-0.5
Population Density:										
Large MSA	_	27.9‡	27.7	25.2	20.3	18.5	17.5	16.8	13.3	-3.5
Other MSA	_	27.4‡	27.0	24.2	20.8	17.7	17.2	16.4	14.9	-1.5
Non-MSA	_	21.9‡	22.6	19.3	17.6	19.3	15.7	18.0	16.8	-1.2
Parental Education: a										
1.0-2.0 (Low)	_	26.5‡	20.3	22.4	21.5	17.0	18.4	14.3	12.0	-2.3
2.5–3.0	_	28.1‡	25.9	23.1	19.5	19.2	14.8	17.1	15.9	-1.2
3.5-4.0	_	27.0‡	30.3	25.3	20.2	18.3	17.9	17.8	15.3	-2.5
4.5–5.0	_	24.7‡	26.8	22.8	20.5	19.3	17.6	16.1	15.4	-0.7
5.5-6.0 (High)	_	26.3‡	24.2	22.3	20.1	19.0	16.7	17.9	13.0	-4.9
Race/Ethnicity (2-year average): b										
White	_	_	_	28.1	24.6	22.2	21.0	20.3	19.1	-1.2
African American	_	_	_	11.5	11.6	11.2	10.1	8.5	8.0	-0.5
Hispanic	_	_	_	23.0	18.9	16.3	15.9	15.4	12.5	-2.9 s

Source. The Monitoring the Future study, the University of Michigan.

Notes.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates some change in the question. See relevant footnote for that drug. See relevant figure to assess the impact of the wording changes. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. In 2012 the question text was changed from "...had an alcoholic beverage mixed with an energy drink (like Red Bull)." The data in 2011 and 2012 are not comparable due to this question change. Data based on two of six forms; N is two sixths of N indicated in Table S3.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to

**TABLE 127 CIGARETTES:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Perce	entage w	ho used	in last 30	) days					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	14.3	15.5	16.7	18.6	19.1	21.0	19.4	19.1	17.5	14.6	12.2	10.7	10.2	9.2	9.3
Gender:															
Male	15.5	14.9	17.2	19.3	18.8	20.6	19.1	18.0	16.7	14.3	12.2	11.0	9.6	8.3	8.7
Female	13.1	15.9	16.3	17.9	19.0	21.1	19.5	19.8	17.7	14.7	12.0	10.4	10.6	9.9	9.7
College Plans:															
None or under 4 years	29.2	31.9	34.1	36.6	36.5	39.2	40.0	40.1	40.3	34.7	30.0	29.3	27.8	25.6	26.7
Complete 4 years	11.8	13.1	14.3	16.1	16.8	18.2	16.9	16.5	14.5	12.2	10.0	8.9	8.3	7.4	7.4
Region:															
Northeast	13.7	14.4	15.0	17.8	18.6	22.1	18.0	15.6	15.7	13.7	11.4	9.1	7.7	7.2	7.8
Midwest	15.5	16.5	16.3	18.5	20.9	23.2	20.0	22.3	21.3	17.1	12.0	11.0	12.2	10.8	9.5
South	15.7	17.0	18.2	19.5	19.4	21.1	21.0	21.1	18.7	14.7	14.3	13.0	11.7	10.3	11.6
West	10.0	12.2	16.4	18.0	16.5	17.1	17.1	15.1	12.1	12.2	9.3	7.5	7.0	7.4	6.3
Population Density:															
Large MSA	12.8	15.0	14.1	15.5	16.5	19.4	15.8	16.4	12.7	12.1	9.3	7.5	7.7	7.7	6.7
Other MSA	14.9	15.3	17.8	20.7	19.4	21.4	19.7	17.7	16.0	13.1	11.6	10.6	9.8	8.9	9.8
Non-MSA	14.8	16.4	17.9	17.8	21.5	22.1	22.8	24.8	26.1	21.1	16.9	14.9	14.4	11.6	11.8
Parental Education: a															
1.0-2.0 (Low)	26.2	24.1	23.3	26.1	25.3	26.5	26.9	26.7	26.6	22.0	20.3	20.3	17.5	15.8	16.6
2.5-3.0	16.4	16.9	19.8	20.6	22.7	24.4	22.4	23.9	23.5	19.6	16.4	14.5	14.8	12.2	13.4
3.5-4.0	13.9	14.9	17.4	20.1	20.8	21.4	20.9	21.4	17.0	14.7	12.6	10.5	9.6	9.6	10.5
4.5-5.0	10.1	13.3	12.5	14.9	14.9	18.4	16.2	14.2	12.3	10.2	8.3	7.8	6.7	6.7	5.9
5.5-6.0 (High)	11.3	11.5	13.3	15.1	14.5	17.3	15.3	13.8	12.2	9.8	6.9	5.8	6.0	5.2	4.3
Race/Ethnicity (2-year average): <sup>b</sup>															
White	_	16.2	17.8	18.9	20.7	22.7	22.8	21.5	20.1	17.7	14.7	12.0	10.9	10.0	9.4
African American	_	5.3	6.6	8.7	8.9	9.6	10.9	10.6	10.7	9.6	8.2	7.7	6.9	6.9	7.1
Hispanic		16.7	18.3	21.3	21.6	19.6	19.1	20.1	20.5	16.6	13.0	12.8	11.9	10.1	9.0

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TABLE 127 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

#### Percentage who used in last 30 days 2017-2018 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 change Approximate weighted N = 16.500 16,100 15,700 15.000 15.300 16.000 15,100 14.600 14.600 14.400 16.900 15.300 Total 6.5 4.9 4.5 4.0 2.6 1.9 2.2 +0.3 8.7 7 1 6.8 7 1 6 1 3.6 Gender: Male 8.1 7.5 6.7 6.7 6.2 4.0 3.5 3.3 2.5 2.1 +0.4 Female 8.9 6.4 6.7 6.0 6.8 5.7 4.9 4.7 4.2 3.7 2.6 1.9 2.0 0.0 College Plans: None or under 4 years 23.9 21.1 +0.6 23.2 19.5 22.8 18.2 17.3 15.0 13.1 11.7 9.9 5.5 6.1 Complete 4 years 5.5 5.3 5.7 5.1 3.9 3.8 3.1 2.8 2.0 1.5 0.0 Region: Northeast 6.7 3.7 5.9 5.6 6.0 4.4 4.2 3.5 3.4 2.2 2.0 1.2 1.6 +0.4 Midwest 9.3 7.8 8.1 7.0 8.6 6.4 3.9 4.4 3.5 4.5 3.2 2.6 2.4 -0.2 South 10.9 8.6 7.7 7.7 6.8 6.9 5.8 4.6 4.0 3.0 1.8 2.0 +0.3 West 5.8 5.2 4.6 6.1 3.0 3.0 3.9 2.0 2.0 2.5 +0.5 Population Density: Large MSA 4.7 5.2 4.2 3.6 2.5 2.8 2.2 1.5 -0.1 64 4.8 40 1.4 1.3 Other MSA 8.8 7.6 7.5 6.9 7.6 7.0 5.1 4.3 3.7 3.5 2.3 1.9 2.0 +0.1 Non-MSA 11.6 7.9 7.7 8.0 +1.2 Parental Education: a 1.0-2.0 (Low) 14.7 13.8 12.1 10.5 9.2 7.6 6.3 5.9 4.7 3.2 3.0 -0.1 11.4 5.8 2.5 - 3.012.5 10.2 8.7 8.8 10.2 9.8 7.4 6.5 6.2 4.6 3.6 2.7 2.1 -0.6 3.5-4.0 8.8 7.8 7.3 7.1 8.0 6.3 5.7 5.6 4.8 3.5 2.6 2.1 +0.7 4.5-5.0 3.9 4.7 4.9 3.0 2.4 2.6 2.5 2.0 1.3 1.5 +0.2 5.5 4.4 3.9 5.5-6.0 (High) 4.8 2.4 4.1 3.5 2.9 3.1 2.6 2.9 1.7 2.1 1.4 1.2 1.1 -0.1 Race/Ethnicity (2-year average): b White 8.1 7.2 7.3 7.6 7.2 4.7 4.4 4.2 3.4 2.6 1.9 -0.6 s

Source. The Monitoring the Future study, the University of Michigan.

6.0

8.8

African American

Hispanic

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

4.3

6.7

4.1

6.9

4.0

5.5

3.5

4.0

2.6

3.5

2.2

3.0

2.1

2.5

1.7

2.0

1.4

1.8

-0.2

-0.2

4.4

6.5

5.1

8.0

4.6

7.0

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 128
CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

						Perce	entage w	ho used	in last 30	days					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	20.8	21.5	24.7	25.4	27.9	30.4	29.8	27.6	25.7	23.9	21.3	17.7	16.7	16.0	14.9
Gender:															
Male	20.8	20.6	24.6	26.6	27.7	30.1	28.2	26.2	25.2	23.8	20.9	16.7	16.2	16.2	14.5
Female	20.7	22.2	24.5	23.9	27.9	30.8	31.1	29.1	25.8	23.6	21.5	18.6	17.0	15.7	15.1
College Plans:															
None or under 4 years	36.5	35.0	41.9	42.2	46.3	46.2	47.2	45.2	44.0	38.6	38.1	33.3	33.0	33.1	29.4
Complete 4 years	17.3	18.6	21.0	21.7	24.7	27.8	26.8	24.5	22.7	21.5	18.5	15.1	14.0	13.6	12.9
Region:															
Northeast	22.4	21.9	27.1	24.5	27.8	31.7	29.3	30.1	28.0	23.9	18.1	15.9	16.6	16.6	14.9
Midwest	22.9	24.3	26.0	28.8	30.1	32.5	31.7	29.5	30.2	27.1	24.2	19.2	18.4	14.6	16.2
South	21.2	19.8	24.0	25.7	30.8	33.4	32.2	29.8	26.3	25.5	23.5	19.6	18.2	20.4	16.4
West	16.7	20.2	21.2	20.1	19.6	20.8	23.2	19.6	17.5	16.8	15.0	14.1	12.5	10.9	10.9
Population Density:															
Large MSA	19.7	21.6	22.5	22.3	23.3	26.2	26.6	22.5	22.9	23.1	17.3	14.2	13.1	12.0	11.7
Other MSA	20.3	20.3	23.8	26.3	28.9	31.1	28.9	26.6	25.0	21.3	20.5	17.6	16.6	16.6	14.7
Non-MSA	22.7	23.7	28.2	26.7	31.3	33.9	34.9	35.7	30.4	29.4	27.6	22.6	22.4	20.4	19.8
Parental Education: a															
1.0-2.0 (Low)	23.5	28.4	29.5	26.4	30.9	28.7	28.2	28.0	30.5	29.3	22.5	21.4	23.4	19.3	16.4
2.5-3.0	24.1	23.3	28.0	29.1	33.2	33.8	33.2	33.0	29.6	26.8	25.7	22.4	21.2	19.9	19.7
3.5-4.0	20.4	20.6	24.8	26.0	27.8	31.6	30.9	27.3	26.0	25.3	21.1	17.4	16.2	17.8	15.7
4.5-5.0	18.5	19.5	20.1	22.6	25.9	28.7	28.5	25.7	22.4	21.2	18.9	15.1	13.4	12.6	12.5
5.5-6.0 (High)	18.5	18.9	21.4	20.7	21.8	27.8	24.6	22.5	21.4	19.1	17.1	12.7	11.6	10.8	10.8
Race/Ethnicity (2-year average): b															
White	_	24.1	26.0	27.8	29.7	32.9	34.4	33.2	30.8	28.2	25.7	22.4	20.0	18.7	17.6
African American	_	6.6	7.5	9.8	11.5	12.2	12.8	13.7	12.5	11.1	11.1	9.8	8.9	9.2	8.7
Hispanic	_	18.3	20.5	19.4	21.4	23.7	23.0	21.3	21.1	19.6	16.8	14.3	13.2	13.9	13.5

TABLE 128
CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

					Perce	entage w	ho used	in last 30	days (					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 change
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14.700	13.500	14.300	
Total	14.5	14.0	12.3	13.1	13.6	11.8	10.8	9.1	7.2	6.3	4.9	5.0	4.2	-0.8
Gender:														
Male	13.4	14.6	12.7	13.7	15.0	13.4	12.0	10.5	7.7	6.1	5.0	5.0	4.4	-0.6
Female	15.5	13.3	11.9	12.5	12.1	10.0	9.6	7.5	6.6	6.3	4.4	4.9	3.7	-1.2
College Plans:														
None or under 4 years	32.7	30.1	30.1	29.0	32.5	28.5	27.6	23.3	19.4	17.6	14.5	15.0	10.2	-4.9 s
Complete 4 years	12.1	11.8	10.0	11.3	11.3	9.9	9.0	7.4	5.8	5.1	3.8	3.7	3.2	-0.5
Region:														
Northeast	11.8	13.1	10.1	11.1	12.1	12.2	10.9	7.2	6.7	6.1	4.4	3.9	2.9	-1.0
Midwest	18.1	17.1	14.5	12.9	14.5	11.8	9.7	9.3	8.0	7.0	4.7	5.6	4.2	-1.4
South	15.6	14.4	14.0	16.7	15.4	13.8	13.6	11.8	7.7	7.0	5.5	4.9	5.5	+0.6
West	10.9	11.1	9.6	10.1	11.1	8.5	7.6	6.9	5.8	4.7	4.5	5.5	3.4	-2.1
Population Density:														
Large MSA	11.5	12.1	10.3	11.4	11.1	9.5	8.4	5.8	5.9	4.9	4.4	4.9	3.0	-1.9 ss
Other MSA	13.3	13.9	12.3	13.0	13.5	11.5	10.2	9.5	6.0	5.7	4.3	3.8	3.7	-0.1
Non-MSA	22.4	17.2	15.4	16.1	17.5	15.7	15.4	13.0	12.3	10.4	7.2	8.4	7.6	-0.8
Parental Education: a														
1.0-2.0 (Low)	20.4	17.5	15.7	18.2	18.8	14.6	15.4	12.8	9.7	9.3	5.5	7.1	5.5	-1.6
2.5–3.0	19.7	18.4	15.8	16.5	18.6	16.2	14.4	13.6	9.1	8.7	7.1	7.3	5.5	-1.8
3.5-4.0	15.5	14.7	13.9	13.8	15.1	12.7	11.2	10.2	8.4	7.8	5.3	5.0	4.7	-0.3
4.5–5.0	10.8	11.3	9.6	10.9	10.0	8.6	9.6	6.0	5.2	5.0	3.5	3.3	3.0	-0.4
5.5-6.0 (High)	10.0	9.7	7.8	8.9	7.7	8.0	7.1	4.9	4.9	3.3	3.4	3.6	3.0	-0.6
Race/Ethnicity (2-year average): b														
White	16.6	16.2	15.1	14.4	14.7	14.3	12.9	11.4	9.5	7.8	6.8	6.3	5.8	-0.5
African American	8.0	7.1	6.5	6.8	6.7	7.1	6.7	5.3	4.2	3.8	2.6	2.1	1.8	-0.2
Hispanic	12.1	10.5	11.1	12.1	12.2	10.5	8.3	8.3	6.8	5.3	4.0	3.4	3.7	+0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 129
CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 30 days 1986 1989 1990 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1987 1988 Approximate weighted N = 9,400 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 15,200 Total 36.7 38.8 38.4 36.7 34.4 30.5 29.4 30.0 30.3 29.3 30.1 29.6 29.4 28.7 28.6 29.4 Gender: Male 37.2 37.7 36.6 34.5 31.2 26.8 26.5 26.8 28.0 25.9 28.2 27.9 27.0 28.0 27.7 29.1 Female 35.9 39.1 39.6 38.1 37.1 33.4 31.6 32.6 31.6 31.9 31.4 30.6 31.4 28.9 29.0 29.2 College Plans: None or under 4 years 46.3 46.2 44.6 43.0 39.6 38.1 38.7 38.0 37.9 40.5 38.5 39.7 37.5 38.0 37.5 Complete 4 years 29.8 29.4 27.4 26.0 22.3 22.3 22.1 23.3 22.7 22.8 24.0 24.3 24.4 24.1 25.4 Region: 40.1 41.8 43.0 40.6 37.0 31.5 32.1 33.5 34.2 35.2 34.1 31.2 29.4 31.9 Northeast 34.1 34.6 Midwest 39.5 41.3 40.5 39.0 36.6 31.5 32.4 33.5 33.2 31.4 34.1 32.5 31.7 31.1 34.9 34.0 39.1 37.6 35.7 31.8 28.9 29.4 28.7 25.6 26.1 26.0 28.0 26.1 South 36.2 35.4 28.6 26.4 West 26.3 28.3 27.7 27.3 24.8 21.2 21.8 20.4 21.8 22.9 26.3 23.3 26.6 23.9 22.7 25.1 Population Density: Large MSA 39.7 40.4 40.9 37.5 33.4 31.2 30.6 32.1 30.8 31.3 31.9 30.8 29.3 26.9 25.9 27.9 Other MSA 35.1 35.9 36.1 34.3 33.5 29.7 27.4 27.8 29.1 28.2 28.5 28.0 28.2 28.3 28.2 29.6 Non-MSA 36.7 40.9 39.2 39.4 36.4 30.9 30.9 31.2 31.5 29.3 30.8 31.0 31.8 31.4 32.2 30.4 Parental Education: a 1.0-2.0 (Low) 37.2 43.2 39.6 38.1 38.1 32.7 32.5 32.6 32.7 33.6 32.3 28.6 28.8 28.1 25.4 26.3 2.5-3.0 37.0 41.2 40.8 39.3 35.9 34.2 31.7 32.0 32.2 31.8 32.3 32.3 31.4 29.9 30.8 30.8 3.5-4.0 28.2 28.0 29.7 29.3 31.9 35.3 37.3 34.0 33.3 28.0 29.0 28.1 29.7 28.8 27.8 29.4 4.5-5.0 32.3 35.0 33.0 32.6 30.1 25.7 26.0 25.5 27.8 25.2 27.7 26.4 27.6 28.6 29.1 27.0 5.5-6.0 (High) 26.8 30.8 32.8 31.9 29.6 24.0 22.5 25.1 25.5 23.7 22.6 26.7 29.3 27.8 26.3 28.6 Race/Ethnicity (2-year average): b White 38.3 37.6 36.0 33.0 30.5 30.7 31.3 31.2 31.3 31.9 32.1 32.2 32.2 32.3 African American 36.7 32.7 30.2 26.8 23.7 21.8 19.3 18.1 16.9 14.2 13.3 12.6 12.2 21.2 Hispanic 35.7 32.8 26.8 22.6 23.2 24.7 24.7 25.3 25.5 23.7 22.7 21.9 20.6 21.7

TABLE 129 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 30 days 2005 1991 1992 1993 1994 1995 <u>1996</u> 1997 1998 1999 2000 2001 2002 2003 2004 Approximate weighted N = 15,00015,800 16,300 15,400 15,400 14,300 15,400 15,200 13,600 12,800 12,800 12,900 14,600 14,600 14,700 Total 28.3 27.8 29.9 31.2 33.5 34.0 36.5 35.1 34.6 31.4 29.5 26.7 24.4 25.0 23.2 Gender: Male 29.0 29.2 30.7 32.9 34.5 34.9 37.3 36.3 35.4 32.8 29.7 27.4 26.2 25.3 24.8 Female 27.5 26.1 28.7 29.2 32.0 32.4 35.2 33.3 33.5 29.7 28.7 25.5 22.1 24.1 20.7 College Plans: None or under 4 years 38.1 38.6 37.3 40.9 43.5 45.0 45.7 46.7 44.9 43.6 40.8 37.5 36.2 36.8 34.8 Complete 4 years 24.2 23.8 27.3 28.0 29.9 30.8 33.1 31.3 31.4 27.3 25.9 23.6 20.8 21.6 20.0 Region: Northeast 30.5 29.6 34.2 33.2 34.4 38.5 40.6 35.9 34.2 33.1 30.3 27.3 25.0 25.9 22.0 Midwest 34.6 31.7 33.2 36.2 37.8 37.7 39.3 40.0 37.8 35.6 35.9 31.7 27.3 28.3 26.8 26.4 29.0 30.7 33.5 33.2 35.0 36.2 25.9 27.2 24.3 24.6 South 25.4 34.3 29.6 24.6 West 23.2 22.8 22.9 24.0 26.5 24.4 30.5 29.1 27.6 28.1 25.2 19.4 20.7 20.1 17.5 Population Density: Large MSA 26.2 25.6 29.5 29.0 33.9 32.1 34.9 32.9 30.0 27.4 27.3 24.8 18.9 20.8 20.8 Other MSA 29.3 26.9 29.8 31.1 31.7 32.6 35.7 34.2 35.0 31.5 28.2 26.2 25.1 26.3 22.6 Non-MSA 28.6 31.5 30.3 33.8 36.2 38.2 40.0 39.7 38.7 36.3 34.3 30.1 30.4 27.6 27.4 Parental Education: a 1.0-2.0 (Low) 31.3 27.1 26.5 26.2 31.2 31.5 31.2 32.3 33.0 31.3 24.8 20.9 23.5 21.0 19.1 2.5-3.0 28.7 30.3 30.4 32.8 35.0 35.5 36.5 36.0 37.3 32.2 31.5 28.9 27.0 28.7 27.3 3.5-4.0 32.8 28.6 28.4 27.8 29.9 31.4 33.2 33.2 35.6 36.7 35.0 30.3 24.3 26.3 24.8 4.5-5.0 25.8 30.1 32.0 32.6 34.5 37.5 34.2 32.4 30.2 29.3 25.0 22.6 23.8 26.9 21.8 5.5-6.0 (High) 27.1 25.5 30.5 30.4 34.0 32.9 38.5 33.1 34.4 27.4 25.0 25.3 21.0 19.9 18.0 Race/Ethnicity (2-year average): b White 32.2 31.8 33.2 35.2 36.6 38.1 40.7 41.7 40.1 37.9 35.3 32.5 29.4 28.2 27.6 African American 10.6 8.7 9.5 10.9 12.9 14.3 14.9 14.9 14.3 13.3 12.1 10.0 10.7 14.2 10.1 Hispanic 24.0 25.0 24.2 23.6 25.1 25.4 25.9 26.6 27.3 27.7 23.8 21.3 19.0 18.5 17.1

TABLE 129 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

					Perce	entage w	ho used	in last 30	days					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	<u>change</u>
Total	21.6	21.6	20.4	20.1	19.2	18.7	17.1	16.3	13.6	11.4	10.5	9.7	7.6	-2.0 ss
Gender:														
Male	22.4	23.1	21.5	22.1	21.9	21.5	19.3	18.4	15.2	13.0	12.7	10.6	8.4	-2.2 s
Female	20.1	19.6	19.1	17.6	15.7	15.1	14.5	13.2	11.6	9.1	8.1	8.3	5.9	-2.5 ss
College Plans:														
None or under 4 years	32.9	32.4	32.4	31.2	31.2	32.2	27.9	28.9	25.3	21.9	19.2	16.5	14.6	-1.8
Complete 4 years	18.6	19.0	17.6	17.3	16.3	15.6	14.7	13.0	10.8	8.9	8.4	8.0	5.2	-2.8 sss
Region:														
Northeast	23.1	23.8	19.7	18.9	18.2	17.8	18.8	17.0	11.7	10.8	10.9	9.6	6.4	-3.3 s
Midwest	23.6	24.7	22.1	25.7	21.5	21.8	21.0	16.5	13.8	12.7	12.0	9.6	7.3	-2.2
South	23.2	21.9	22.4	20.0	20.5	18.4	15.6	18.6	15.4	12.5	10.8	11.2	9.2	-2.0
West	15.0	15.8	15.8	14.7	15.3	16.4	13.9	12.1	11.9	8.6	8.3	7.1	6.1	-1.0
Population Density:														
Large MSA	20.7	19.9	18.8	17.7	18.7	17.2	15.8	14.5	11.7	9.3	8.4	7.4	5.3	-2.1 ss
Other MSA	20.3	20.8	19.5	19.1	17.9	18.1	15.6	15.5	12.9	10.5	9.9	9.5	6.8	-2.7 ss
Non-MSA	25.3	25.9	24.3	25.5	23.1	22.3	23.1	20.9	17.8	17.0	15.1	13.8	13.9	+0.1
Parental Education: a														
1.0-2.0 (Low)	21.1	20.5	18.5	19.9	17.0	18.2	17.0	18.2	14.8	12.9	9.9	7.9	6.9	-1.0
2.5–3.0	24.7	24.7	22.4	23.2	21.6	22.4	19.0	18.2	16.1	13.9	12.0	11.3	8.0	-3.3 ss
3.5-4.0	22.9	21.6	21.3	21.0	20.9	19.6	20.1	18.5	14.2	12.2	11.9	10.4	8.1	-2.3 s
4.5–5.0	19.2	20.5	18.6	18.0	17.5	15.9	15.7	14.1	12.0	9.7	9.1	8.7	6.6	-2.2 s
5.5-6.0 (High)	17.4	18.4	19.2	15.3	12.8	14.3	11.2	9.5	9.4	7.5	7.6	8.1	5.9	-2.3
Race/Ethnicity (2-year average): b														
White	25.9	24.9	24.7	23.9	22.9	22.2	21.2	19.4	17.5	15.0	13.2	12.7	11.0	-1.7 ss
African American	10.5	10.8	10.3	9.8	10.1	9.7	8.6	9.6	9.0	6.9	6.0	5.0	4.1	-0.9 s
Hispanic	16.0	15.3	15.0	15.7	15.0	14.3	13.2	12.4	11.4	9.6	8.2	6.9	5.2	-1.7 sss

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 130
CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

Percentage who used daily in last 30 days 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 16,800 Approximate weighted N = 17,50018,600 16,700 16,700 16,200 15,100 16,500 17,000 18,600 18,300 17,300 17,500 17,800 18,100 Total 4.0 7.0 8.3 8.8 9.3 10.4 9.0 8.1 7.4 5.5 5.1 4.5 4.4 Gender: Male 8.1 6.9 8.8 9.5 9.2 10.5 9.0 7.4 7.0 5.9 5.4 4.4 4.3 3.9 8.1 Female 6.2 7.2 7.8 8.0 9.2 10.1 8.7 9.0 8.4 7.5 4.9 4.9 4.5 4.3 4.0 College Plans: None or under 4 years 18.5 20.1 21.5 22.6 22.5 26.0 25.4 25.2 25.2 21.7 17.7 17.1 16.1 15.4 14.4 Complete 4 years 5.3 5.1 6.4 6.8 7.5 8.0 6.9 6.6 5.9 5.6 3.9 3.9 3.2 3.1 Region: Northeast 7.2 7.1 7.1 8.6 9.2 11.0 8.8 6.1 7.2 6.9 6.1 3.7 2.9 3.3 3.2 Midwest 7.8 7.6 8.5 9.4 10.3 11.2 9.0 6.4 5.7 5.7 4.8 11.0 12.4 11.5 5.5 South 7.9 7.8 9.3 9.4 9.4 10.4 9.5 10.2 8.5 7.8 6.1 6.6 5.7 4.7 5.0 West 4.6 4.8 7.4 7.4 7.0 7.5 6.8 5.8 3.8 4.9 2.6 2.9 2.4 3.3 2.4 Population Density: Large MSA 6.3 6.3 5.7 6.6 7.6 9.5 7.0 6.7 5.4 5.6 4.1 3.2 3.0 3.5 2.3 Other MSA 7.7 7.2 9.1 8.7 7.9 5.4 5.1 4.1 Non-MSA 7.3 7.8 10.1 9.6 11.1 11.8 11.7 12.7 12.7 11.8 7.2 7.6 7.0 5.9 6.2 Parental Education: a 1.0-2.0 (Low) 15.9 7.8 11.9 12.7 13.0 15.8 13.6 14.3 13.0 14.7 13.1 11.1 10.6 9.1 10.1 2.5-3.0 8.6 9.7 11.3 11.3 14.0 11.7 12.0 11.3 7.5 7.1 6.6 5.6 6.3 3.5-4.0 6.5 6.9 8.5 8.9 9.4 10.1 9.2 9.7 8.1 6.7 5.1 5.4 4.4 4.2 4.3 4.5-5.0 4.0 5.2 5.9 6.1 7.2 7.6 6.8 5.7 4.6 3.9 3.0 3.3 2.6 2.8 2.2 5.5-6.0 (High) 4.9 4.2 6.3 5.8 5.7 7.4 5.5 5.2 5.1 4.1 3.1 2.1 2.1 1.9 1.4 Race/Ethnicity (2-year average)>b White 4.6 7.7 8.8 9.7 10.5 11.7 11.4 10.4 9.7 9.0 7.5 6.0 5.3 4.7 African American 1.4 1.8 2.6 2.8 3.2 3.7 3.8 3.8 3.2 2.8 2.8 2.9 2.7 2.1

7.3

7.2

9.0

9.2

8.0

8.1

8.4

8.5

7.1

5.0

4.4

3.7

3.5

Hispanic

TABLE 130 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

					Percenta	age who	used da	ily in last	30 days					2017-
														2018
	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	4.0	3.0	3.1	2.7	2.9	2.4	1.9	1.8	1.4	1.3	0.9	0.6	0.8	+0.3
Gender:														
Male	4.0	3.4	3.2	2.9	3.5	2.5	2.0	1.7	1.2	1.1	1.0	0.6	0.9	+0.3
Female	3.8	2.6	2.9	2.3	2.3	2.2	1.6	1.8	1.3	1.4	8.0	0.5	0.6	+0.1
College Plans:														
None or under 4 years	13.2	12.3	10.8	10.9	12.8	8.1	8.0	8.3	4.7	5.9	4.4	1.8	3.3	+1.4
Complete 4 years	2.9	2.2	2.3	1.9	2.0	1.9	1.4	1.4	1.0	0.9	0.5	0.4	0.4	0.0
Region:														
Northeast	3.0	1.7	2.4	2.1	2.4	1.4	1.8	1.3	1.2	0.7	0.6	0.2	0.5	+0.3
Midwest	4.7	3.8	3.9	3.0	3.3	2.3	1.3	1.5	0.9	1.6	1.0	0.8	1.0	+0.3
South	5.3	3.8	3.7	3.2	3.8	2.9	2.9	2.6	1.9	1.5	1.0	0.6	8.0	+0.2
West	1.8	1.9	2.0	2.0	1.4	2.3	8.0	1.2	1.1	1.1	0.9	0.6	1.0	+0.4
Population Density:														
Large MSA	2.3	1.6	2.2	1.6	1.7	1.2	1.4	0.8	1.1	0.6	0.4	0.4	0.5	+0.1
Other MSA	4.1	3.1	3.3	3.0	3.1	3.2	2.0	1.8	1.3	1.2	0.7	0.6	0.9	+0.3
Non-MSA	6.3	5.0	4.2	3.7	4.3	2.7	2.8	3.4	2.1	2.7	2.5	0.9	1.4	+0.5
Parental Education: a														
1.0-2.0 (Low)	7.3	5.5	5.4	6.2	4.2	3.9	2.6	2.7	2.6	1.7	2.2	1.1	1.0	-0.1
2.5–3.0	6.6	4.9	4.4	3.4	4.8	3.9	3.3	3.0	1.9	1.9	1.2	0.7	8.0	+0.1
3.5-4.0	3.8	3.6	3.0	2.5	2.8	2.9	2.2	2.0	1.6	1.6	0.6	0.6	1.1	+0.5
4.5–5.0	2.1	1.5	1.9	1.8	1.9	1.4	0.9	1.0	0.8	8.0	0.6	0.3	0.5	+0.2
5.5-6.0 (High)	1.8	0.7	1.9	1.4	1.0	0.9	1.0	1.0	0.5	0.4	0.5	0.3	0.5	+0.2
Race/Ethnicity (2-year average)>b														
White	4.6	3.9	3.3	3.2	3.2	3.0	2.4	2.0	1.7	1.4	1.2	0.9	0.6	-0.2
African American	1.9	2.1	1.9	2.0	1.9	1.5	1.6	1.5	1.2	0.9	0.5	0.4	0.5	+0.2
Hispanic	2.8	2.8	2.5	2.2	2.3	2.4	1.8	1.4	1.3	1.0	0.8	0.6	0.4	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 131
CIGARETTES: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

Percentage who used daily in last 30 days 1992 1993 1994 1995 1996 1997 1998 2001 2002 2003 2005 Approximate weighted N = 14,800 14.800 15.300 15.800 17.000 15.600 15.500 15.000 13.600 14.300 14.000 14.300 15.800 16.400 16.200 Total 12.6 12.3 14.2 14.6 16.3 18.3 18.0 15.8 15.9 14.0 12.2 10.1 8.9 8.3 7.5 Gender: Male 12.4 12.1 7.2 13.8 15.2 16.3 18.1 17.2 14.7 15.6 13.7 12.4 9.4 8.6 8.2 Female 12.4 14.3 13.7 18.5 16.8 14.1 10.8 7.7 College Plans: None or under 4 years 25.7 25.5 28.9 28.9 32.7 34.3 35.4 31.7 32.1 28.8 27.3 22.9 22.1 21.4 19.2 Complete 4 years 9.6 9.5 11.0 11.5 13.3 15.5 15.0 12.9 13.2 11.6 9.6 7.9 6.7 5.9 Region: Northeast 14.3 13.1 16.3 14.1 18.0 18.7 17.7 14.1 8.5 7.6 15.8 18.8 11.0 8.3 8.6 Midwest 14.3 14.3 15.1 16.9 17.6 20.6 19.5 17.3 19.6 16.3 13.2 11.5 10.2 7.4 8.6 South 12.8 11.4 13.9 15.5 19.3 20.5 20.5 17.1 16.3 15.7 14.3 11.3 10.1 11.0 8.8 West 10.9 7.8 10.7 9.7 10.7 9.1 7.8 7.0 5.2 4.0 Population Density: Large MSA 12.3 11.7 12.3 12.0 12.6 15.3 15.7 12.2 13.2 13.8 9.6 7.4 5.6 5.5 6.1 Other MSA 11.7 11.6 13.6 15.5 17.5 18.8 16.9 15.1 15.5 12.1 11.6 10.4 8.7 8.1 7.0 Non-MSA 20.8 22.5 21.1 19.7 17.5 13.1 13.7 12.3 14.3 14.5 16.9 15.5 18.4 16.3 11.4 Parental Education: a 1.0-2.0 (Low) 18.9 9.9 16.0 17.8 19.3 15.5 20.0 19.3 17.7 17.4 20.1 12.9 14.1 15.3 2.5-3.0 13.9 22.1 19.1 17.6 12.7 11.1 15.5 16.9 17.6 21.6 23.1 21.3 16.2 14.7 11.5 3.5-4.0 12.0 11.8 13.6 15.9 17.0 19.4 18.9 14.9 16.6 14.2 12.2 10.0 9.3 7.9 4.5-5.0 10.6 10.5 10.7 11.5 12.6 14.8 15.6 12.9 13.0 11.5 9.7 6.8 5.8 5.4 5.5-6.0 (High) 10.5 9.6 10.3 12.0 11.1 11.2 9.8 8.3 4.5 4.2 9.6 9.0 13.6 6.4 4.4 Race/Ethnicity (2-year average): b White 17.7 9.1 14.5 15.3 16.5 17.6 20.0 21.4 20.3 19.1 15.5 13.3 11.4 10.0 African American 2.8 3.1 3.8 4.7 5.1 5.6 5.8 5.3 5.2 5.2 5.0 4.4 3.9 Hispanic 8.4 8.9 8.1 9.9 11.6 10.8 9.4 9.1 8.8 7.4 6.4 6.0 6.0 5.9

TABLE 131 (cont.)
CIGARETTES: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 10</u>

					Percenta	age who	used da	ily in last	30 days					2017-
Approximate weighted N =	2006 16,200	2007 16,100	2008 15,100	2009 15,900	2010 15,200	<u>2011</u> 14,900	<u>2012</u> 15,000	2013 12,900	2014 13,000	2015 15,600	2016 14,700	2017 13,500	2018 14,300	2018 <u>change</u>
Total	7.6	7.2	5.9	6.3	6.6	5.5	5.0	4.4	3.2	3.0	1.9	2.2	1.8	-0.4
Gender:														
Male	6.9	7.7	6.2	6.9	7.2	6.4	5.6	5.4	3.5	2.8	2.2	2.3	1.9	-0.5
Female	8.1	6.6	5.5	5.6	5.9	4.5	4.4	3.4	2.8	2.8	1.5	1.9	1.5	-0.4
College Plans:														
None or under 4 years	21.7	18.9	17.9	17.3	19.1	17.1	17.0	13.4	10.5	10.8	7.2	8.9	5.1	-3.8 s
Complete 4 years	5.6	5.6	4.3	5.0	5.0	4.2	3.7	3.4	2.3	2.0	1.2	1.4	1.2	-0.2
Region:														
Northeast	6.2	6.8	5.3	5.3	5.7	6.3	5.1	3.6	2.8	2.7	1.6	2.2	1.0	-1.2
Midwest	10.3	10.0	7.6	5.8	7.3	5.7	4.4	4.9	3.9	2.8	2.3	2.8	1.8	-1.0
South	8.4	7.2	6.9	8.5	7.9	6.6	6.9	5.7	3.4	3.6	2.2	2.1	2.6	+0.6
West	4.2	4.7	3.4	4.3	4.4	3.0	2.6	3.1	2.4	2.3	1.4	2.1	1.1	-1.0
Population Density:														
Large MSA	5.4	5.7	4.3	5.2	4.8	4.3	3.6	2.3	2.5	2.1	1.6	1.7	1.1	-0.6
Other MSA	6.7	7.2	6.2	6.0	6.3	5.3	4.7	4.8	2.6	2.5	1.6	1.5	1.4	-0.1
Non-MSA	13.2	9.6	7.5	8.5	9.7	7.6	7.4	6.8	5.7	5.5	3.2	4.9	3.8	-1.1
Parental Education: a														
1.0-2.0 (Low)	12.5	9.8	7.6	9.4	10.0	8.2	8.0	6.8	4.6	5.2	2.4	3.8	3.2	-0.6
2.5–3.0	11.9	10.8	8.7	8.7	10.1	8.9	7.5	7.2	4.7	4.6	3.0	3.5	2.8	-0.7
3.5-4.0	7.8	7.2	6.7	6.7	7.1	5.6	4.5	4.7	3.9	3.4	1.9	2.5	1.9	-0.6
4.5–5.0	4.4	5.5	3.8	4.6	3.9	3.3	4.3	2.8	1.8	2.1	1.2	1.1	1.0	-0.1
5.5-6.0 (High)	4.3	3.5	3.0	3.5	3.1	2.5	2.8	1.9	1.6	1.0	1.0	1.0	8.0	-0.2
Race/Ethnicity (2-year average): b														
White	8.7	8.8	8.0	7.1	7.4	7.1	6.2	5.7	4.8	3.5	2.8	2.5	2.4	0.0
African American	3.3	3.2	3.0	3.2	3.5	3.5	2.9	2.6	2.3	2.1	1.3	0.9	1.0	0.0
Hispanic	5.3	3.8	3.8	4.5	4.4	3.8	3.0	2.6	2.3	2.1	1.9	1.6	1.6	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes

TABLE 132
CIGARETTES: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

						Per	centage	who used	d daily in	last 30 c	lays					
Approximate weighted N =	<u>1975</u> 9,400	<u>1976</u> 15,400	<u>1977</u> 17,100	<u>1978</u> 17,800	<u>1979</u> 15,500	<u>1980</u> 15,900	1981 17,500	<u>1982</u> 17,700	1983 16,300	<u>1984</u> 15,900	<u>1985</u> 16,000	<u>1986</u> 15,200	1987 16,300	<u>1988</u> 16,300	<u>1989</u> 16,700	<u>1990</u> 15,200
Total	26.9	28.8	28.8	27.5	25.4	21.3	20.3	21.1	21.2	18.7	19.5	18.7	18.7	18.1	18.9	19.1
Gender:																
Male	26.9	28.0	27.1	26.0	22.3	18.5	18.1	18.2	19.2	16.0	17.8	16.9	16.4	17.4	17.9	18.6
Female	26.4	28.8	30.0	28.3	27.8	23.5	21.7	23.2	22.2	20.5	20.6	19.8	20.6	18.1	19.4	19.3
College Plans:																
None or under 4 years	_	36.5	37.2	35.2	33.8	29.7	29.3	29.5	29.3	27.2	29.6	28.2	29.0	27.4	27.9	28.3
Complete 4 years	_	19.8	19.3	18.3	17.0	13.8	12.9	13.2	13.8	11.9	12.4	12.8	13.3	13.4	14.6	14.7
Region:																
Northeast	31.4	32.3	33.8	32.5	28.6	24.1	23.3	23.4	26.1	23.6	24.9	24.9	24.8	21.4	21.3	22.8
Midwest	28.6	30.2	29.4	28.6	27.0	22.0	23.0	24.0	23.4	20.4	22.4	19.9	20.3	19.0	23.0	22.2
South	26.2	29.1	28.7	26.4	25.8	22.6	19.1	20.2	19.4	17.7	16.0	15.8	15.7	17.7	17.1	16.5
West	17.3	19.4	19.2	19.1	17.0	14.0	13.1	12.7	13.0	12.4	14.2	13.4	14.9	14.0	13.8	14.8
Population Density:																
Large MSA	30.8	30.4	30.9	29.2	24.5	21.6	21.9	23.5	22.1	21.5	21.9	20.6	20.3	18.0	16.7	19.0
Other MSA	25.6	27.1	27.2	25.7	25.0	21.3	19.0	19.3	20.2	17.4	17.7	17.0	17.6	17.7	19.0	19.0
Non-MSA	25.8	29.5	29.1	28.7	26.5	21.2	20.7	21.3	21.7	18.2	19.9	19.8	19.3	18.8	20.9	19.5
Parental Education: a																
1.0-2.0 (Low)	27.2	32.7	29.6	28.6	29.1	23.7	24.1	24.6	24.0	23.2	22.7	20.4	19.7	19.2	17.1	16.7
2.5–3.0	27.2	31.3	31.5	30.3	26.5	24.7	22.5	23.1	23.2	21.5	21.8	21.4	21.1	19.6	21.5	21.0
3.5-4.0	22.1	25.8	28.1	24.8	24.5	19.4	19.0	19.7	18.8	16.4	19.3	19.4	17.8	17.5	19.0	19.3
4.5–5.0	22.9	24.5	23.7	23.2	21.2	16.6	16.1	16.8	17.5	14.1	16.0	13.9	16.5	16.5	17.2	18.3
5.5-6.0 (High)	17.4	22.8	21.7	22.8	20.6	15.0	13.9	14.5	17.2	14.1	11.2	13.6	16.6	15.1	15.8	16.5
Race/Ethnicity (2-year average): b																
White	_	_	28.9	28.3	26.9	23.9	21.4	21.6	22.1	21.0	20.4	20.6	20.5	20.6	21.1	21.8
African American	_	_	24.9	22.7	20.9	17.4	14.6	13.1	12.5	10.7	9.9	9.4	7.9	7.3	6.4	5.8
Hispanic	_	_	22.6	20.4	15.8	12.8	13.6	14.3	14.9	13.9	11.8	11.3	11.0	10.9	10.8	10.9

TABLE 132 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

<u>.</u>						Percenta	age who	used dai	ly in last	30 days					
Ain a facilità del Al	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
***		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	23.1	20.6	19.0	16.9	15.8	15.6	13.6
Gender:															
Male	18.8	17.2	19.4	20.4	21.7	22.2	24.8	22.7	23.6	20.9	18.4	17.2	17.0	15.4	14.6
Female	17.9	16.7	18.2	18.1	20.8	21.8	23.6	21.5	22.2	19.7	18.9	16.1	14.0	15.0	11.9
College Plans:															
None or under 4 years	28.4	28.1	27.8	29.8	33.7	33.2	35.6	34.6	34.2	31.7	30.1	27.6	27.9	26.9	24.9
Complete 4 years	14.1	12.9	15.9	15.7	17.4	18.9	20.6	18.4	19.5	16.6	15.5	13.8	12.1	12.2	10.5
Region:															
Northeast	20.9	19.4	23.5	21.3	22.5	27.0	29.4	23.4	23.2	22.8	21.9	18.4	16.4	16.2	13.3
Midwest	23.0	19.0	21.3	23.8	25.7	26.1	28.0	27.8	25.9	23.6	25.2	22.5	18.2	18.5	16.3
South	16.4	16.7	18.5	19.3	21.7	20.5	22.6	21.8	24.2	19.4	15.5	16.6	16.3	15.8	15.4
West	13.9	13.3	13.0	12.4	14.5	13.8	17.5	15.5	17.3	16.9	13.4	9.5	11.8	10.1	7.6
Population Density:															
Large MSA	16.7	16.6	17.3	17.7	21.3	20.7	23.7	20.6	18.6	16.7	17.4	15.0	11.5	12.6	11.4
Other MSA	19.0	15.9	19.7	19.2	19.9	21.9	23.9	21.2	22.8	21.1	17.5	16.7	15.9	16.1	12.7
Non-MSA	19.0	20.3	19.2	21.6	24.8	24.1	26.8	27.2	28.5	24.5	23.9	19.8	21.4	18.0	18.2
Parental Education: a															
1.0–2.0 (Low)	21.2	16.5	17.6	16.9	21.3	21.1	21.9	21.7	23.8	22.8	16.4	12.4	15.1	14.2	11.7
2.5–3.0	19.8	20.4	20.2	22.4	24.6	24.4	26.0	24.7	26.9	22.9	21.9	19.8	18.3	19.4	18.3
3.5-4.0	18.5	16.9	18.9	18.9	21.6	21.2	23.8	23.8	23.6	21.2	19.9	19.1	16.5	16.3	14.4
4.5–5.0	16.2	15.0	18.9	18.7	19.7	22.4	24.9	20.6	20.6	18.6	17.9	14.1	13.0	13.7	11.7
5.5-6.0 (High)	16.1	12.8	16.6	17.3	18.5	20.0	22.9	17.4	19.0	15.2	13.4	14.3	11.3	10.3	8.1
Race/Ethnicity (2-year average): b															
White	21.5	20.5	21.4	22.9	23.9	25.4	27.8	28.3	26.9	25.7	23.8	21.8	19.5	18.3	17.1
African American	5.1	4.2	4.1	4.9	6.1	7.0	7.2	7.4	7.7	8.0	7.5	6.4	5.4	5.2	5.6
Hispanic	11.5	12.5	11.8	10.6	11.6	12.9	14.0	13.6	14.0	15.7	12.0	9.2	8.0	8.2	7.7

TABLE 132 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of <u>Daily</u> Use by Subgroups in <u>Grade 12</u>

					Percent	age who	used da	ily in last	30 days					
Approximate weighted N =	2006 : 14,200	2007 14.500	2008 14.000	2009 13.700	2010 14.400	<u>2011</u> 14,100	2012 13.700	2013 12,600	2014 12.400	2015 12.900	2016 11.800	2017 12.600	2018 13.300	2017-2018 <u>change</u>
Total	12.2	12.3	11.4	11.2	10.7	10.3	9.3	8.5	6.7	5.5	4.8	4.2	3.6	-0.6
Gender:	12.2	12.0		11.2	10.7	10.0	0.0	0.0	0.7	0.0	1.0	1.2	0.0	0.0
Male	12.0	13.0	12.0	11.8	12.3	11.6	10.9	9.7	7.9	6.6	5.6	4.3	3.8	-0.5
Female	11.8	11.2	10.6	9.9	8.7	8.6	7.3	6.5	5.4	3.9	3.7	3.8	2.6	-1.2
College Plans:														
None or under 4 years	22.8	22.5	21.1	20.9	21.6	21.0	18.4	18.8	14.0	14.1	10.3	8.7	8.6	-0.1
Complete 4 years	9.4	9.9	9.0	8.6	8.2	7.9	7.0	5.8	5.0	3.5	3.4	3.1	1.9	-1.2 ss
Region:														
Northeast	14.3	14.3	11.3	10.8	10.3	10.2	11.3	9.8	6.8	5.4	5.9	4.1	2.3	-1.8
Midwest	13.2	14.5	12.9	15.4	12.5	11.7	11.6	8.4	6.6	6.6	5.5	4.3	3.5	-0.8
South	13.3	12.9	13.1	11.4	12.3	10.8	9.0	10.5	8.2	6.1	5.0	5.2	4.9	-0.2
West	7.0	7.4	7.0	5.9	6.7	7.9	5.8	4.6	4.5	3.5	3.0	2.7	2.5	-0.2
Population Density:														
Large MSA	10.3	10.3	8.9	8.6	9.9	9.2	8.3	7.2	5.4	4.0	3.4	2.8	2.1	-0.6
Other MSA	11.5	11.7	11.2	11.0	9.9	9.5	8.2	7.9	6.3	5.0	4.7	4.0	3.3	-0.7
Non-MSA	16.2	16.6	14.8	15.1	14.0	13.7	13.5	11.8	9.6	9.4	7.2	7.3	7.1	-0.1
Parental Education: a														
1.0–2.0 (Low)	11.4	14.6	11.9	11.2	8.9	9.9	9.6	10.2	6.9	7.2	5.0	3.8	3.7	0.0
2.5–3.0	16.1	15.1	13.4	14.7	13.9	13.5	11.6	10.4	8.9	7.8	6.2	5.3	4.6	-0.8
3.5–4.0	12.3	12.3	12.5	11.5	11.6	10.7	11.2	10.0	6.7	5.8	5.2	4.6	3.9	-0.7
4.5–5.0	10.4	11.2	9.0	9.0	8.7	8.2	7.1	6.4	5.8	3.7	3.6	3.6	2.3	-1.2 s
5.5–6.0 (High)	8.3	7.4	9.1	5.8	6.1	6.7	4.7	3.6	4.7	3.1	2.6	2.6	1.4	-1.3
Race/Ethnicity (2-year average): b														
White	15.3	14.5	14.3	13.9	13.5	13.0	12.1	10.9	9.3	7.3	6.1	5.8	5.0	-0.7 s
African American	5.7	5.8	5.8	5.4	5.3	4.9	4.7	5.3	5.1	4.1	3.5	2.5	2.0	-0.6
Hispanic	7.0	6.6	6.7	6.4	5.7	5.3	4.9	4.7	4.1	3.7	2.9	1.9	1.8	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 133** CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 8

				I	Percenta	ige who i	used hal	f pack a	day or m	ore in la	st 30 day	/S				
	<u>1991</u>	1992	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	<u>1997</u>	1998	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	
Total	3.1	2.9	3.5	3.6	3.4	4.3	3.5	3.6	3.3	2.8	2.3	2.1	1.8	1.7	1.7	
Gender:																
Male	3.7	3.1	4.3	4.2	3.7	4.7	3.7	3.5	3.1	2.8	2.6	2.4	1.8	1.7	2.0	
Female	2.4	2.7	2.7	2.9	3.2	3.7	3.1	3.3	3.3	2.6	2.0	1.9	1.7	1.7	1.3	
College Plans:																
None or under 4 years	10.1	10.8	11.9	11.7	11.4	13.5	11.6	13.8	13.4	10.3	9.8	8.4	7.5	7.4	7.7	
Complete 4 years	1.9	1.7	2.2	2.4	2.3	2.8	2.4	2.2	2.0	1.8	1.4	1.5	1.2	1.1	1.0	
Region:																
Northeast	3.3	2.8	2.7	3.7	3.7	4.1	3.7	2.1	3.1	3.3	2.6	1.7	1.0	1.4	1.4	
Midwest	3.3	3.2	3.5	3.9	4.4	5.3	4.1	4.6	5.7	3.4	3.1	2.7	2.1	2.3	2.2	Table continued on ne
South	3.4	3.3	4.6	3.9	3.6	4.5	3.7	4.8	2.9	2.8	2.7	2.5	2.6	1.8	1.9	
West	1.9	2.0	2.2	2.6	1.8	2.7	2.2	1.6	1.2	1.3	0.7	0.9	8.0	1.2	0.9	
Population Density:																
Large MSA	2.4	2.3	2.1	3.0	2.5	3.7	2.7	2.3	1.8	2.1	1.5	1.3	1.0	1.3	1.0	
Other MSA	3.3	3.2	3.7	3.9	3.6	3.8	3.2	3.2	2.8	2.2	2.1	2.2	1.7	1.6	1.5	
Non-MSA	3.4	3.3	5.0	3.7	4.3	5.8	4.8	5.6	5.9	4.6	3.9	3.1	3.1	2.4	2.9	
Parental Education: a																
1.0-2.0 (Low)	7.9	6.5	6.4	5.1	8.2	6.5	6.4	6.2	6.2	7.1	5.2	4.6	3.7	5.6	2.9	
2.5–3.0	3.7	3.4	3.9	4.9	4.1	6.4	4.8	5.2	4.8	3.8	3.6	2.8	2.9	2.1	2.8	
3.5–4.0	2.5	2.6	3.6	3.4	3.6	3.2	3.5	3.7	3.4	2.3	2.0	2.2	1.8	1.5	1.9	
4.5–5.0	1.6	1.8	2.3	2.6	2.0	2.8	2.2	2.0	1.5	1.4	0.9	1.2	0.7	0.8	0.6	
5.5-6.0 (High)	1.8	1.5	2.2	2.2	1.5	2.7	1.8	2.1	1.8	1.5	1.4	1.1	0.9	0.6	0.5	
Race/Ethnicity (2-year average): b																
White	_	3.3	3.8	4.2	4.2	4.6	4.6	4.2	4.0	3.6	3.2	2.8	2.3	1.9	1.9	
African American	_	0.4	0.7	1.0	0.9	1.3	1.4	1.2	1.3	1.0	1.1	1.1	1.2	1.1	0.9	
Hispanic	_	2.7	2.5	3.1	3.3	2.7	2.4	2.8	3.0	2.3	1.4	1.3	1.5	1.4	1.1	

next page.

TABLE 133 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 8

			F	Percenta	ge who i	used half	f pack a	day or m	ore in la	st 30 day	/S			2017-
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018 <u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	1.5	1.1	1.2	1.0	0.9	0.7	0.6	0.7	0.5	0.4	0.3	0.2	0.3	+0.1
Gender:														
Male	1.7	1.3	1.4	1.2	1.1	0.7	0.8	0.9	0.5	0.5	0.4	0.2	0.3	+0.1
Female	1.3	0.8	0.9	0.7	0.7	0.6	0.3	0.5	0.4	0.3	0.2	0.1	0.2	+0.1
College Plans:														
None or under 4 years	5.8	4.7	4.7	4.7	4.6	3.0	3.0	4.0	1.8	2.4	1.8	0.6	1.1	+0.5
Complete 4 years	1.1	0.7	0.8	0.6	0.5	0.5	0.4	0.5	0.3	0.2	0.1	0.1	0.1	0.0
Region:														
Northeast	1.2	0.8	0.9	0.8	0.6	0.2	0.7	0.4	0.4	0.3	0.2	0.1	0.3	+0.2
Midwest	1.9	1.2	1.6	1.1	1.0	0.8	0.5	0.5	0.3	0.4	0.2	0.3	0.6	+0.3
South	2.1	1.3	1.3	1.1	1.2	0.8	0.8	1.1	0.8	0.6	0.5	0.2	0.2	0.0
West	0.6	0.9	0.6	0.7	0.5	1.0	0.3	0.6	0.3	0.3	0.3	0.2	0.4	+0.1
Population Density:														
Large MSA	0.9	0.7	0.7	0.5	0.4	0.3	0.4	0.5	0.3	0.2	0.2	0.1	0.2	+0.2
Other MSA	1.6	1.1	1.3	1.1	0.9	1.0	0.6	0.7	0.5	0.4	0.3	0.2	0.3	+0.1
Non-MSA	2.3	1.7	1.6	1.3	1.4	0.8	0.8	1.3	0.9	0.9	0.7	0.4	0.5	+0.1
Parental Education: a														
1.0-2.0 (Low)	3.6	1.9	2.5	2.6	0.9	1.2	0.7	1.0	1.2	0.7	1.0	0.3	0.3	-0.1
2.5–3.0	2.4	2.0	1.5	1.2	1.7	1.0	1.0	0.9	0.6	0.3	0.3	0.1	0.2	+0.1
3.5–4.0	1.3	1.3	1.0	0.8	0.9	0.8	0.7	0.7	0.6	0.4	0.1	0.3	0.4	+0.1
4.5–5.0	1.0	0.5	0.7	0.4	0.7	0.4	0.1	0.3	0.2	0.2	0.0	0.2	0.2	0.0
5.5–6.0 (High)	0.6	0.2	0.9	0.7	0.2	0.2	0.4	0.7	0.1	0.2	0.2	0.0	0.1	+0.1
Race/Ethnicity (2-year average): b														
White	1.9	1.5	1.2	1.2	1.1	0.9	0.7	0.7	0.6	0.4	0.3	0.3	0.3	0.0
African American	0.8	0.9	0.8	0.8	0.6	0.4	0.4	0.6	0.6	0.4	0.3	0.3	0.3	0.0
Hispanic	0.7	0.9	0.9	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.3	0.1	0.1	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 134

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 10

Percentage who used half pack a day or more in last 30 days

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	6.5	6.0	7.0	7.6	8.3	9.4	8.6	7.9	7.6	6.2	5.5	4.4	4.1	3.3	3.1
Gender:															
Male	6.9	6.5	7.8	8.2	8.7	9.9	8.9	8.1	7.8	6.7	6.0	4.1	4.3	3.5	2.9
Female	6.0	5.1	6.2	6.7	7.7	9.0	8.2	7.8	7.3	5.6	5.1	4.6	3.8	2.9	3.2
College Plans:															
None or under 4 years	15.9	15.3	18.5	18.5	20.9	22.4	22.0	20.6	18.9	16.0	16.0	11.5	12.3	10.8	9.4
Complete 4 years	4.4	4.0	4.6	5.2	6.1	7.1	6.3	5.6	5.7	4.5	3.8	3.1	2.8	2.2	2.2
Region:															
Northeast	7.8	5.9	8.5	7.8	7.7	9.1	8.8	10.0	9.1	6.0	5.0	3.7	4.6	3.6	3.4
Midwest	7.1	7.3	7.7	8.3	9.5	10.9	9.3	9.1	9.9	8.1	6.0	4.8	5.0	3.0	3.3
South	7.2	5.5	7.1	8.7	10.3	11.0	10.2	8.9	7.8	7.1	6.5	5.5	4.5	4.3	3.7
West	4.0	5.0	4.3	4.2	3.4	5.0	4.4	3.0	3.0	2.2	3.3	2.5	2.3	1.8	1.7
Population Density:															
Large MSA	6.9	5.2	5.9	5.8	6.0	7.6	6.6	5.8	6.0	5.7	4.8	3.0	2.3	1.9	2.3
Other MSA	5.8	5.8	6.7	8.5	9.2	9.5	8.0	7.7	7.6	5.6	5.0	4.7	4.0	3.3	2.6
Non-MSA	7.6	6.9	8.7	7.8	9.2	11.5	12.0	11.0	9.4	7.8	7.5	5.7	7.3	5.2	5.4
Parental Education: a															
1.0-2.0 (Low)	9.9	10.7	10.8	8.1	12.0	12.1	10.8	9.0	11.3	10.7	7.6	7.4	8.6	6.6	4.6
2.5-3.0	8.9	6.9	8.5	10.1	12.2	13.1	11.4	11.6	10.4	8.5	8.3	7.0	6.3	5.3	4.9
3.5-4.0	5.8	5.4	7.3	8.0	8.6	10.2	8.8	7.4	7.4	5.9	5.3	4.0	4.2	3.8	3.2
4.5–5.0	4.7	4.7	4.3	5.4	5.0	6.2	6.5	5.9	5.5	4.3	3.9	2.4	2.2	1.4	1.8
5.5-6.0 (High)	4.5	3.7	3.9	4.0	4.0	5.7	4.8	5.4	4.5	3.6	2.6	2.0	1.4	1.0	1.6
Race/Ethnicity (2-year average): b															
White	_	7.4	7.7	8.6	9.3	10.5	11.0	10.4	9.9	8.5	7.1	6.2	5.5	4.7	3.9
African American	_	0.8	0.6	1.2	1.8	1.6	1.7	1.8	1.5	1.9	1.7	1.2	1.0	1.0	1.2
Hispanic	_	3.0	3.0	2.6	3.4	4.3	3.3	3.0	3.1	2.9	2.7	2.2	1.8	1.5	1.9

TABLE 134 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 10

Percentag	e who used half	nack a da	v or more in	last 30 days

•							•							2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	3.3	2.7	2.0	2.4	2.4	1.9	1.5	1.5	1.2	1.0	0.6	0.7	0.7	0.0
Gender:														
Male	3.1	2.9	2.4	2.7	3.0	2.5	1.7	1.9	1.5	1.1	8.0	0.7	8.0	+0.1
Female	3.3	2.5	1.7	2.0	1.8	1.2	1.3	1.1	0.9	8.0	0.4	0.4	0.4	0.0
College Plans:														
None or under 4 years	12.0	8.1	7.8	8.6	8.6	7.0	6.8	5.3	4.9	5.0	3.2	3.2	2.1	-1.1
Complete 4 years	2.1	2.0	1.3	1.7	1.7	1.3	1.0	1.0	8.0	0.5	0.3	0.3	0.4	+0.1
Region:														
Northeast	3.2	2.5	1.2	2.2	2.6	2.3	1.1	1.4	0.9	0.9	0.5	0.9	0.3	-0.6 ss
Midwest	4.5	4.2	3.3	2.7	2.7	2.2	1.5	1.8	1.7	1.0	0.9	0.7	0.8	0.0
South	3.6	2.8	2.6	3.2	3.1	2.3	2.3	2.0	1.3	1.3	0.7	0.5	0.9	+0.4
West	1.3	1.3	0.7	1.0	1.1	0.5	0.8	0.7	0.8	0.7	0.4	0.7	0.5	-0.1
Population Density:														
Large MSA	1.8	2.0	1.1	1.6	1.6	1.3	0.9	8.0	0.7	0.6	0.5	0.6	0.5	-0.1
Other MSA	3.0	2.7	2.2	2.3	2.4	1.7	1.4	1.4	8.0	0.7	0.4	0.4	0.6	+0.2
Non-MSA	6.3	4.0	3.1	3.7	3.8	3.0	2.6	2.7	3.0	2.4	1.5	1.4	1.3	-0.2
Parental Education: a														
1.0-2.0 (Low)	7.1	4.9	3.4	4.8	4.2	3.0	3.9	2.6	1.9	2.0	0.9	0.9	1.3	+0.5
2.5–3.0	5.6	4.5	3.2	3.7	4.5	3.6	2.5	2.6	1.9	1.3	0.9	1.2	1.1	-0.1
3.5–4.0	3.1	2.6	2.4	2.4	2.3	1.8	1.3	1.5	1.5	1.2	0.4	0.5	0.7	+0.2
4.5–5.0	1.5	1.6	1.1	1.4	1.1	0.9	1.0	0.9	0.5	0.7	0.4	0.3	0.3	-0.1
5.5-6.0 (High)	1.6	1.2	0.7	1.1	1.0	0.5	0.5	0.5	0.4	0.1	0.3	0.3	0.3	0.0
Race/Ethnicity (2-year average): b														
White	3.8	3.8	3.2	2.8	2.9	2.6	2.1	1.9	1.8	1.2	0.9	0.7	0.8	0.0
African American	1.3	1.2	0.9	1.1	1.4	1.3	0.9	8.0	1.0	0.9	0.6	0.4	0.4	-0.1
Hispanic	2.0	1.0	0.9	1.1	1.0	0.9	0.8	0.6	0.5	0.7	0.7	0.5	0.5	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 135
CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 12

Percentage who used half pack a day or more in last 30 days 1975 1976 1977 1978 1979 1980 1981 1983 1984 1985 1986 1987 1988 1989 1990 1982 15,200 Approximate weighted N = 9,400 15,400 17,100 17,800 15,500 15,900 17,500 17,700 16,300 15,900 16,000 15,200 16,300 16,300 16,700 Total 17.9 19.2 19.4 18.8 16.5 14.3 13.5 14.2 13.8 12.3 12.5 11.4 11.4 10.6 11.2 11.3 Gender: Male 19.6 19.9 19.7 18.9 15.4 13.5 12.8 13.1 13.1 11.0 12.3 10.7 10.1 11.1 11.2 11.6 Female 16.1 18.0 18.9 18.0 17.1 14.7 13.8 14.7 13.6 12.8 12.0 11.6 12.5 9.7 10.7 10.8 College Plans: None or under 4 years 25.5 26.9 25.5 23.3 21.2 20.8 21.0 20.9 19.6 20.7 19.2 19.5 18.4 18.6 19.2 Complete 4 years 11.9 11.2 11.1 9.8 8.2 7.5 7.8 7.6 6.5 6.5 6.4 7.2 6.8 7.5 7.5 Region: Northeast 22.0 22.5 24.2 23.6 19.8 17.0 16.6 15.6 16.6 17.4 17.0 15.6 16.5 13.1 13.6 13.8 Midwest 18.8 20.3 20.3 19.8 17.4 15.4 16.0 17.3 17.1 13.0 14.9 12.3 12.3 11.5 14.2 13.7 South 16.8 19.0 18.5 17.0 16.1 14.5 12.0 13.3 12.4 11.3 9.7 10.0 9.4 10.1 9.7 9.4 West 11.3 12.4 11.5 12.2 10.8 8.3 7.3 7.1 6.4 7.4 7.6 6.5 8.1 7.7 6.9 8.3 Population Density: Large MSA 21.7 20.1 20.4 19.7 16.2 14.8 15.4 15.9 14.1 14.8 14.4 12.2 13.1 10.8 10.1 11.2 Other MSA 17.4 18.9 18.8 17.9 16.5 13.8 12.4 12.9 13.5 11.4 11.0 9.6 10.0 10.4 11.2 11.0 Non-MSA 15.9 19.0 19.5 19.3 16.7 14.7 13.6 14.2 14.0 11.5 12.9 13.3 12.5 10.7 12.1 12.1 Parental Education: a 1.0-2.0 (Low) 18.6 21.3 20.0 19.2 19.5 16.3 16.0 17.1 17.1 16.4 16.1 15.6 13.8 11.2 11.5 10.2 2.5-3.0 17.7 21.4 22.2 21.0 17.6 16.8 15.6 15.9 15.2 14.8 14.2 13.3 13.9 12.4 13.5 13.4 3.5-4.0 13.9 17.4 18.3 16.9 15.2 12.8 12.5 13.3 11.9 10.5 12.0 11.0 10.5 10.3 10.7 11.6 4.5-5.0 15.9 15.9 14.8 15.4 12.6 10.3 10.1 10.1 10.5 8.0 9.5 6.8 8.9 8.6 9.2 10.2 5.5-6.0 (High) 9.1 15.9 14.6 14.5 13.6 9.8 8.8 9.3 9.3 7.9 5.4 7.4 8.4 8.3 8.4 7.9 Race/Ethnicity (2-year average): b White 20.3 20.2 18.6 16.4 15.0 15.1 15.2 14.2 13.6 13.1 12.9 12.9 12.9 13.3 African American 10.7 9.7 9.1 7.1 5.8 5.4 4.9 4.1 3.9 3.6 2.9 2.3 1.9 1.8 Hispanic 11.3 9.0 6.4 5.6 6.1 5.6 5.9 6.1 5.3 5.0 4.1 3.5 4.2 4.2

TABLE 135 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 12

					Percenta	ıge who ι	used half	pack a	day or mo	ore in las	t 30 days	6			
Approximate weighted N =	<u>1991</u>	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	1998 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Approximate weighted iv =	10.7	10.0	10.9	11.2	12.4	13.0	14.3	12.6	13,600	11.3	10.3	9.1	8.4	8.0	6.9
Gender:	10.7	10.0	10.3	11.2	12.4	13.0	14.5	12.0	10.2	11.5	10.5	3.1	0.4	0.0	0.3
Male	11.6	10.4	11.6	12.7	13.2	13.6	15.5	13.5	14.5	11.4	10.2	10.0	9.5	8.0	8.0
Female	9.5	9.2	9.9	9.5	11.1	12.0	12.6	11.1	11.5	10.8	10.2	7.9	6.6	7.5	5.3
College Plans:	9.5	9.2	3.3	9.0	11.1	12.0	12.0	11.1	11.5	10.0	10.2	7.5	0.0	7.5	0.0
None or under 4 years	18.7	19.1	18.7	19.6	22.6	23.1	23.5	23.7	23.2	20.3	19.3	17.5	17.2	16.0	15.2
Complete 4 years	7.1	6.5	8.1	8.2	8.9	10.0	11.0	8.9	10.1	8.1	7.6	6.7	5.5	5.6	4.6
Region:	7.1	0.5	0.1	0.2	0.9	10.0	11.0	0.0	10.1	0.1	7.0	0.7	0.0	5.0	4.0
Northeast	12.9	11.1	14.7	12.2	13.4	17.0	19.4	13.6	13.4	13.6	12.3	10.9	8.7	9.0	7.5
Midwest	14.1	11.0	12.5	15.3	14.2	15.1	16.9	16.8	15.0	13.7	14.8	13.6	10.1	8.8	8.7
South	8.9	10.2	10.4	10.8	12.6	12.0	12.3	11.8	13.9	10.6	7.6	8.6	8.9	8.9	7.6
West	7.2	6.8	6.0	5.9	8.4	6.5	8.2	7.5	9.0	7.5	6.6	3.1	5.0	4.1	3.1
Population Density:	1.2	0.0	0.0	5.5	0.4	0.5	0.2	7.5	3.0	7.5	0.0	5.1	5.0	4.1	5.1
Large MSA	10.2	9.9	9.1	10.2	12.3	11.6	12.8	11.0	9.6	8.2	9.4	7.6	5.4	6.0	5.2
Other MSA	10.2	8.4	11.2	10.5	11.1	12.8	14.3	11.7	12.6	11.6	9.4	8.7	8.4	8.2	6.3
Non-MSA	11.1	13.1	11.7	13.7	14.7	14.4	16.0	16.5	18.0	14.5	13.3	11.9	12.2	10.0	10.4
Parental Education: a	11.1	13.1	11.7	13.7	14.7	14.4	10.0	10.5	10.0	14.5	10.0	11.5	12.2	10.0	10.4
1.0–2.0 (Low)	12.5	11.0	10.7	9.5	13.5	13.6	11.9	12.5	15.0	16.1	10.8	7.4	8.7	8.6	6.8
2.5–3.0	12.3	12.7	12.5	13.7	15.1	14.8	16.4	14.9	16.6	13.8	12.5	12.0	10.5	10.9	10.0
3.5–4.0	10.7	9.6	10.4	11.0	12.7	12.3	13.9	13.8	13.1	10.7	10.6	10.3	8.7	8.2	7.2
4.5–5.0	7.9	8.1	10.4	10.4	9.8	12.6	14.5	10.3	10.7	9.3	9.2	6.8	5.7	6.1	5.1
4.5–5.0 5.5–6.0 (High)	9.0	5.7	8.3	8.8	9.0	10.8	11.2	7.4	9.5	9.3 7.1	6.2	5.4	4.9	4.7	3.2
Race/Ethnicity (2-year average): b	9.0	5.7	0.3	0.0	5.1	10.0	11.2	7.4	9.0	7.1	0.2	5.4	4.3	4.7	3.2
White	13.1	12.3	12.8	13.7	14.2	15.2	16.9	16.9	15.9	15.1	13.6	12.4	10.9	10.0	9.1
African American															
	1.8	1.8	1.5	1.7	2.2	2.5	2.8	2.5	2.4	2.6	2.4	2.1	1.7	1.6	1.8
Hispanic	4.0	4.6	4.5	4.0	4.1	5.3	5.8	5.2	5.8	7.0	5.3	3.8	3.0	2.9	2.9

TABLE 135 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 12

				Percenta	ge who ι	used half	pack a c	day or mo	ore in las	t 30 days	,			
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	<u>change</u>
Total	5.9	5.7	5.4	5.0	4.7	4.3	4.0	3.4	2.6	2.1	1.8	1.7	1.5	-0.2
Gender:														
Male	6.2	6.4	6.1	5.4	5.6	5.3	4.9	4.0	3.4	2.5	1.9	1.8	1.6	-0.2
Female	5.2	4.7	4.6	4.2	3.6	3.0	2.8	2.4	1.8	1.2	1.5	1.3	0.9	-0.3
College Plans:														
None or under 4 years	13.0	12.5	11.9	11.2	12.0	11.1	9.5	8.6	6.2	5.8	4.7	4.7	3.1	-1.6
Complete 4 years	3.9	4.0	3.8	3.6	3.1	2.8	2.6	2.1	1.7	1.1	1.0	0.9	8.0	-0.2
Region:														
Northeast	7.9	6.1	5.5	5.0	4.4	4.0	5.4	4.3	2.5	2.2	2.2	2.1	0.8	-1.3 ss
Midwest	6.7	7.2	6.6	7.2	5.9	4.5	5.2	3.4	2.5	2.4	2.3	1.9	1.6	-0.3
South	6.0	6.4	6.5	5.3	5.5	5.2	4.0	4.3	3.3	2.4	1.9	2.0	2.1	+0.2
West	2.9	2.5	2.6	1.8	2.2	3.0	1.8	1.4	1.6	1.1	0.9	0.6	0.7	+0.1
Population Density:														
Large MSA	4.8	4.2	3.4	3.8	4.0	3.8	3.2	2.6	1.9	1.5	1.0	0.9	1.0	+0.1
Other MSA	5.0	5.3	5.3	4.6	4.2	3.9	3.4	2.8	2.4	1.9	1.8	1.8	1.2	-0.7
Non-MSA	9.2	8.8	8.2	7.5	6.9	6.2	6.8	6.0	4.1	3.6	2.9	2.6	3.1	+0.5
Parental Education: a														
1.0-2.0 (Low)	5.4	7.5	6.8	5.2	4.3	5.0	4.9	3.9	2.7	3.0	2.9	1.3	1.5	+0.2
2.5–3.0	8.4	7.6	6.9	7.2	6.4	6.2	5.3	5.0	3.1	3.2	2.4	2.3	1.4	-0.9
3.5-4.0	5.8	5.6	6.0	5.1	5.1	4.3	4.7	3.7	2.8	1.7	1.6	1.6	1.7	+0.1
4.5–5.0	4.6	4.7	3.7	3.6	3.2	2.7	2.3	2.4	2.1	1.3	1.3	1.5	8.0	-0.7
5.5-6.0 (High)	3.3	2.7	3.5	2.0	2.3	2.7	2.0	1.1	1.6	1.1	0.7	0.7	0.6	-0.1
Race/Ethnicity (2-year average): <sup>b</sup>														
White	7.9	7.1	7.1	7.0	6.6	6.0	5.4	4.8	3.9	2.9	2.3	2.2	2.1	-0.2
African American	2.1	2.4	2.2	1.6	1.6	2.0	1.5	1.5	2.0	1.5	1.1	1.0	0.9	-0.1
Hispanic	2.6	2.5	2.1	1.6	1.5	1.4	1.3	1.4	1.2	1.1	0.9	0.6	0.6	0.0

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 136
TOBACCO USING A HOOKAH: Trends in Annual
Prevalence of Use by Subgroups in Grade 12

				Percent	who used	d in last 12	2 months				2017-
	1975–										2018
	2011	2010	2011	2012	2013	2014	2015	2016	2017	2018	change
Approximate weighted N =		14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	17.1	18.5	18.3	21.4	22.9	19.8	13.0	10.1	7.8	-2.2
Gender:											
Male	_	19.0	20.0	19.9	21.6	24.9	22.2	15.2	9.4	7.0	-2.3
Female	_	15.2	16.7	17.0	21.0	21.4	17.9	10.7	10.5	7.7	-2.8
College Plans:											
None or under 4 years	_	19.4	19.8	17.9	21.3	23.7	20.6	18.5	10.8	11.5	+0.7
Complete 4 years	_	16.2	18.6	18.4	21.5	22.8	19.5	11.6	10.2	7.1	-3.1 s
Region:											
Northeast	_	15.4	15.1	17.5	23.9	21.6	20.5	18.9	7.3	11.9	+4.7
Midwest	_	17.9	21.3	18.6	18.9	26.2	24.2	13.5	10.5	8.7	-1.8
South	_	15.3	14.5	12.1	16.5	20.1	16.6	8.2	8.7	5.8	-2.9
West	_	20.9	23.9	26.2	29.7	25.9	21.1	17.2	13.7	7.5	-6.2 s
Population Density:											
Large MSA	_	19.6	18.6	22.7	25.2	24.6	20.1	18.6	9.7	8.3	-1.4
Other MSA	_	18.3	21.2	19.3	23.6	23.5	20.2	11.0	9.7	8.5	-1.2
Non-MSA	_	10.5	12.3	9.1	10.7	19.3	18.6	9.2	11.5	5.4	-6.1
Parental Education: a											
1.0-2.0 (Low)	_	16.8	19.8	18.1	19.2	17.9	16.4	10.7	8.1	8.3	+0.1
2.5–3.0	_	16.3	17.6	16.8	20.6	20.2	19.8	14.6	9.3	7.8	-1.5
3.5–4.0	_	18.7	18.1	19.4	23.7	22.9	21.3	15.2	12.7	10.5	-2.2
4.5–5.0	_	15.0	18.6	19.6	20.8	29.0	19.5	11.2	8.4	6.3	-2.1
5.5–6.0 (High)	_	21.3	20.6	17.6	20.4	22.0	23.8	10.6	12.7	5.9	-6.8 s
Race/Ethnicity (2-year data): <sup>b</sup>											
White	_	_	20.6	20.5	20.2	24.4	25.2	19.7	13.0	9.4	-3.7 ss
African American	_	_	6.0	5.9	8.6	10.3	9.5	8.7	8.3	7.3	-1.0
Hispanic			17.6	18.5	22.8	23.7	19.9	16.3	11.6	8.8	-2.8

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and tne prevalence estimates

for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; *N* is one sixth of *N* indicated in Table S3. Beginning in 2016 data based on three of six forms; *N* is three sixths of *N* indicated in Table S3.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase

TABLE 137

SMALL CIGARS: Trends in Annual Prevalence of Use by Subgroups in Grade 12

				Percent	who used	d in last 12	2 months				2017-
	1975-										2018
	2011	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =		14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	23.1	19.5	19.9	20.4	18.9	15.9	15.6	13.3	9.2	-4.1 ss
Gender:											
Male	_	29.7	26.7	27.1	26.5	26.4	23.6	22.5	19.3	12.3	-7.0 ss
Female	_	16.3	12.3	12.9	14.8	11.8	9.3	8.5	7.8	6.5	-1.4
College Plans:											
None or under 4 years	_	30.7	27.7	24.5	21.8	22.9	20.3	18.8	18.7	14.4	-4.3
Complete 4 years	_	21.4	17.8	19.0	20.1	18.0	14.9	14.6	12.4	7.8	-4.5 sss
Region:											
Northeast	_	26.1	21.5	19.2	21.4	21.2	17.4	18.2	13.9	12.6	-1.3
Midwest	_	28.1	23.7	28.4	23.7	23.6	17.6	15.5	14.6	8.1	-6.5
South	_	19.8	14.2	12.8	19.8	18.2	14.4	14.2	13.0	9.2	-3.8
West	_	20.8	21.8	20.5	17.1	14.2	15.9	16.7	11.9	7.9	-4.0
Population Density:											
Large MSA	_	22.7	16.2	21.6	18.5	16.0	10.7	13.6	11.5	4.6	-6.8 sss
Other MSA	_	23.5	21.9	19.5	22.4	20.3	17.9	16.7	13.8	11.1	-2.7
Non-MSA	_	22.5	18.4	18.3	18.3	19.4	19.7	16.1	14.9	12.5	-2.4
Parental Education: a											
1.0-2.0 (Low)	_	16.6	14.8	12.8	18.3	9.5	11.8	8.5	10.3	6.5	-3.8
2.5–3.0	_	23.6	16.2	18.6	17.5	17.6	15.9	15.8	11.1	9.8	-1.2
3.5-4.0	_	22.9	19.9	20.5	22.8	20.6	18.7	16.0	14.3	10.3	-4.0
4.5-5.0	_	25.9	19.4	23.2	22.1	20.8	14.8	16.3	14.9	9.3	-5.6 ss
5.5-6.0 (High)	_	23.5	26.5	19.7	18.1	21.5	19.9	19.1	15.5	9.1	-6.3
Race/Ethnicity (2-year data): b											
White	_	_	25.8	24.3	23.9	24.2	22.0	20.6	19.6	15.1	-4.5 sss
African American	_	_	6.3	5.9	9.1	10.5	9.4	7.8	5.3	4.3	-1.0
Hispanic	_	_	17.9	13.6	16.0	13.7	10.0	10.4	8.5	5.9	-2.7 s

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; N is one sixth of N indicated in Table S3.

### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 138

Flavored Little Cigars or Cigarillos: Trends in 30-Day

Prevalence of Use by Subgroups in Grades 8, 10, and 12

Percentage who used in last 30 days 8th Graders 12th Graders 10th Graders 2017-2017-2017-1991-2018 1991-2018 1976-2018 2018 change change change 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 2018 2013 2014 2015 2016 2017 2018 Approximate weighted N = 14,400 16,900 15,300 14,000 13000 15,600 14,700 13,500 14,300 12400 12,900 11,800 12,600 13,300 Total 4.1 2.8 2.6 2.6 0.0 6.1 4.9 4.0 5.3 1.4 11.4 9.5 10.1 8.9 -1.2 Gender: Male 4.8 2.8 -0.2 4.9 16.1 13.4 12.6 12.0 -0.6 4.4 2.6 2.6 8.2 7.5 5.8 6.1 1.2 15.4 Female 3.4 3.7 2.8 2.4 2.3 -0.1 5.8 4.8 3.7 3.0 4.4 1.5 8.2 7.6 5.8 7.5 5.2 -2.3 s College Plans: None or under 4 years 10.0 7.1 -1.4 12.9 10.9 13.1 2.2 19.6 18.4 17.4 -3.0 9.8 10.0 8.5 15.1 10.4 12.6 14.4 Complete 4 years 3.5 3.6 2.2 2.1 1.9 -0.15.2 4.2 3.0 44 1.3 99 98 8.8 8.4 7.3 -1.1 Region: Northeast 2.3 3.0 3.5 2.5 1.8 -0.7 7.3 5.2 2.9 4.0 -0.7 15.5 11.7 10.8 12.3 6.0 -6.3 ss Midwest 3.3 2.2 2.6 2.7 7.2 4.2 3.3 9.3 3.1 0.1 6.2 4.9 1.7 14.5 11.5 11.1 11.1 -1.8 South 4.8 4.8 3.3 2.5 2.6 0.0 7.7 7.0 6.2 3.5 7.5 4.0 s 10.7 11.7 8.4 10.1 10.0 -0.1 West 4.7 1.9 2.8 3.2 5.3 5.5 5.3 3.8 10.6 8.9 0.8 4.5 0.4 5.4 -1.49.0 7.6 8.4 Population Density: Large MSA -2.3 4.2 3.4 2.2 2.2 2.2 0.0 7.0 4.9 4.6 4.5 3.3 -1.37.9 9.0 7.4 9.1 6.8 Other MSA 2.7 4.4 4.6 2.7 2.3 -0.46.3 5.2 4.8 2.8 6.3 3.5 s 12.6 12.5 9.5 9.5 8.7 -0.8 Non-MSA 3.2 3.9 4.0 3.0 4.0 10.6 6.0 6.0 0.1 12.7 12.2 12.6 0.2 Parental Education: a 1.0-2.0 (Low) 9.1 8.0 4.3 3.1 5.0 1.9 10.5 7.9 5.8 5.2 2.9 -2.310.7 13.1 8.5 7.4 8.5 1.1 2.5-3.0 4.9 2.8 7.2 4.3 6.2 9.7 10.0 9.0 6.0 4.5 3.1 8.5 7.6 14.8 14.3 -1.0 3.5-4.0 3.9 3.1 2.2 2.6 3.7 1.1 10.8 6.2 5.1 4.1 6.7 2.6 12.4 10.6 9.9 10.5 9.1 -1.5 4.5-5.0 9.2 22 3 4 27 1.9 1.5 -0.4 5.1 4.6 4.3 2.6 40 14 104 11.8 10.4 10.7 -1.5 5.5-6.0 (High) 2.1 2.6 1.8 1.3 1.0 -0.2 3.7 4.8 5.5 1.9 4.7 +2.8 s 9.6 6.9 10.9 7.5 -3.4 6.9 Race/Ethnicity (2-year data): b White 2.6 2.7 2.2 2.0 -0.26.8 5.7 4.1 4.6 0.5 13.4 12.2 12.0 11.6 -0.5 African American 3.1 2.8 3.5 0.6 6.4 3.9 3.3 3.6 0.3 8.8 6.5 -0.9 Hispanic 6.7 2.9 3.1 0.3 5.9 9.5 5.8 8.1 5.9 0.0

Source. The Monitoring the Future study, the University of Michigan.

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on two of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 139

Regular Little Cigars or Cigarillos: Trends in 30-Day

Prevalence of Use by Subgroups in Grades 8, 10, and 12

Percentage who used in last 30 days 8th Graders 10th Graders 12th Graders 2017-2017-2017-1991-2018 1991-2018 1976-2018 2013 2014 2015 2016 2017 2018 change 2013 2014 2015 2016 2017 2018 change 2013 2014 2015 2016 2017 2018 change 12,900 15,300 14.000 15,600 13,500 14.300 Approximate weighted N = 14600 14.400 16,900 13000 14,700 12400 11.800 12.600 13,300 Total 3.0 3.0 3.1 +0.1 7.0 5.8 2.5 3.3 1.9 1.6 1.6 0.0 4.4 3.8 7.8 6.1 6.6 -0.7Gender: Male +0.2 -0.5 2.9 4.1 1.8 1.7 1.9 5.9 4.9 3.8 3.9 3.5 9.6 10.9 8.7 8.4 7.9 -0.5 Female 2.0 2.5 1.6 1.5 1.2 -0.3 2.9 2.9 2.0 2.0 2.5 +0.6 4.6 4.6 3.3 4.3 3.1 -1.2 College Plans: -0.9 None or under 4 years 8.5 9.5 6.9 5.4 5.5 0.0 9.9 9.1 8.1 9.2 8.3 13.6 14.6 8.8 12.0 11.1 -0.8 Complete 4 years 2.1 2.4 6.1 2.0 2.8 1.4 1.3 1.1 -0.2 4.0 3.3 2.4 +0.3 5.3 5.3 5.4 4.3 -1.1 Region: Northeast 3.2 2.6 1.4 1.3 -0.1 4.7 4.4 2.3 2.9 2.4 -0.5 9.0 7.8 7.3 7.3 4.0 -3.4 s Midwest 1.5 2.9 1.4 1.5 1.8 +0.3 3.9 4.1 2.7 2.7 3.1 +0.4 8.7 7.5 6.4 6.5 5.9 -0.7 South 3.8 4.0 2.3 1.7 1.5 -0.26.0 4.5 3.5 3.0 4.4 +1.4 6.8 8.7 6.4 7.8 7.1 -0.7West 20 2.6 1.0 1.8 1.7 0.0 2.5 1.9 3.1 3.3 1.4 -1.9 ss 4.1 6.6 4.5 4.1 4.9 +0.8 Population Density: Large MSA 2.2 3.3 1.2 1.5 1.3 -0.2 4.1 2.8 2.7 2.9 2.1 -0.8 4.8 6.0 5.4 4.9 5.4 +0.5 Other MSA 2.7 3.5 1.9 1.7 -0.2 3.6 3.5 2.8 2.1 +1.3 7.0 8.1 6.0 5.9 5.5 -0.3 1.5 3.4 Non-MSA 2.8 2.1 +0.5 7.1 6.4 4.1 3.7 -1.5 9.5 9.9 7.3 10.6 7.1 -3.5 3.1 1.6 5.2 Parental Education: a 1.0-2.0 (Low) +0.7 7.4 +0.1 6.3 5.4 8.3 2.3 2.7 3.4 5.5 4.3 3.2 3.3 8.4 7.9 3.0 5.2 +1.1 2.5 - 3.05.6 3.3 3.1 2.1 3.1 1.8 -1.3 3.8 4.7 2.1 3.7 3.8 +0.1 7.9 10.9 6.5 7.8 -2.1 3.5-4.0 2.6 1.4 1.3 2.0 +0.7 6.6 3.3 4.0 3.9 4.3 +0.4 7.4 6.4 6.8 7.2 6.3 -0.9 4.5-5.0 1.9 2.7 1.7 1.0 8.0 -0.3 3.6 2.6 2.2 2.0 1.4 -0.7 5.3 7.9 6.3 5.8 5.6 -0.2 5.5-6.0 (High) 2.6 1.2 8.0 +0.4 2.8 4.2 3.3 3.2 +1.9 5.7 4.7 4.6 5.5 4.1 1.8 0.4 1.2 -1.5 Race/Ethnicity (2-year data): b White 2.1 2.0 1.3 1.1 -0.2 4.2 3.6 2.8 2.9 0.1 8.3 7.8 7.3 6.8 -0.5 African American 3.4 2.4 2.1 2.7 0.5 4.8 3.4 2.9 3.2 0.3 6.5 6.8 5.6 -0.7Hispanic 4.0 2.9 1.8 2.0 0.2 3.7 2.9 3.1 3.0 6.1 4.9 3.6 4.1 0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes

'-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on two of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 140
Large Cigars: Trends in 30-Day
Prevalence of Use by Subgroups in Grades 8, 10, and 12

Percentage who used in last 30 days 8th Graders 10th Graders 12th Graders 2017-2017-2017-1991-2018 1991-2018 1976-2018 2013 2014 2015 2016 2017 2018 change 2013 2014 2015 2016 2017 2018 change 2013 2014 2015 2016 2017 2018 change 14.000 14.300 12.900 13.300 Approximate weighted N = 14600 14.400 16,900 15,300 13000 15.600 14,700 13,500 12400 11.800 12.600 Total 1.9 2.4 1.7 +0.2 3.9 3.4 23 2.6 2.8 +0.1 5.6 5.2 1.5 1.5 6.4 7.0 6.5 -0.3 Gender: Male +0.4 +0.1 10.7 2.8 3.6 1.8 1.6 2.0 5.8 4.8 3.2 3.9 4.1 10.7 11.9 8.5 8.3 -0.2Female 1.1 1.2 1.1 1.3 1.2 -0.1 2.2 2.1 1.2 1.3 1.3 0.0 2.4 2.4 2.4 2.6 1.9 -0.8 College Plans: -2.6 11.9 None or under 4 years 6.2 7.5 6.3 5.3 5.2 -0.17.2 10.4 7.1 8.7 6.1 12.2 8.3 9.1 8.3 -0.8 Complete 4 years 1.3 +0.1 3.7 2.7 1.7 1.8 2.3 +0.5 6.0 4.3 1.6 1.9 1.1 1.1 5.0 5.8 4.7 -0.4Region: Northeast 1.8 1.6 2.5 1.5 1.6 +0.1 6.1 3.7 2.2 1.2 1.9 +0.7 8.7 8.3 6.1 6.9 4.9 -2.0 Midwest 0.8 1.8 0.8 1.8 1.7 -0.1 3.8 3.2 3.0 2.9 3.2 +0.3 7.4 6.7 7.3 6.1 5.3 -0.8 2.5 5.9 South 27 29 1.9 1.2 1.4 +0.2 4.1 3.7 1.7 3.7 +1.1 6.2 5.5 5.2 6.5 +1.3 West 1.6 2.5 0.8 1.7 2.3 +0.5 2.1 2.8 2.5 3.5 1.5 -1.9 s 4.4 7.8 7.6 4.9 3.3 -1.6 Population Density: Large MSA 2.2 1.8 0.8 1.5 0.8 -0.7 4.4 2.8 1.9 2.8 2.0 -0.8 4.4 5.9 6.1 4.7 3.8 -0.9 Other MSA 1.9 2.7 1.5 1.5 1.9 +0.4 2.9 2.6 2.1 1.7 2.9 +1.2 s 6.4 7.1 6.4 5.4 5.7 +0.3 Non-MSA 1.3 2.5 2.6 2.5 +1.2 5.5 6.4 3.4 4.8 3.8 -1.0 8.7 8.6 7.2 7.3 6.7 -0.6 1.3 Parental Education: a 1.0-2.0 (Low) 2.4 2.4 3.6 4.1 4.5 2.4 3.8 +1.5 4.2 5.7 2.5 1.6 3.0 +1.4 4.8 7.9 4.9 +1.2 2.5 - 3.02.8 2.3 -0.2 4.6 2.7 1.5 1.7 -0.6 4.6 2.9 1.8 3.3 3.1 6.1 5.8 5.8 5.7 -1.1 3.5-4.0 1.5 1.6 1.4 1.7 2.0 +0.3 4.9 2.3 1.9 3.7 3.9 +0.2 7.1 5.7 5.8 5.7 -0.1 4.5-5.0 1.2 1.8 1.0 1.0 1.0 0.0 3.3 3.1 2.2 1.6 1.4 -0.2 7.0 8.2 7.5 6.3 5.0 -1.4 -0.8 5.5-6.0 (High) 1.2 1.5 1.1 0.9 0.6 -0.3 3.8 3.3 3.4 1.9 2.9 +1.0 5.6 6.7 5.9 6.1 5.6 Race/Ethnicity (2-year data): b White 1.6 1.5 1.0 0.9 -0.1 4.1 3.3 2.8 3.1 0.3 8.3 8.5 7.5 6.7 -0.8 African American 2.0 1.5 0.9 1.5 0.6 3.5 2.2 1.7 1.8 0.1 3.2 3.1 2.7 2.5 -0.2

Source. The Monitoring the Future study, the University of Michigan.

Hispanic

Notes

'- indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

2.1

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on two of four forms; *N* is one third of *N* indicated in S1 and S2. For 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

0.3

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

3.4

2.3

1.7

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

3.2

2.3

2.0

2.2

0.2

5.0

4.7

3.5

3.2

-0.3

**TABLE 141 Any Vaping:** Trends in 30-Day Prevalence of Use by Subgroups in Grades 8, 10, and 12

#### Percentage who used in last 30 days

				8th Grad	ers ers				10th Graders								12th Graders						
							2017-	17- 2017-													2017-		
	1991–						2018	1991–						2018	1976-						2018		
	2013	2014	2015	<u>2016</u>	2017	2018	<u>change</u>	<u>2013</u>	<u>2014</u>	2015	2016	2017	2018	change	<u>2013</u>	2014	2015	2016	2017	2018	<u>change</u>		
Approximate weighted N =	_	_	14,400	16,900	16,900	14,000		_	_	15,600	14,700	13,500	14,300		_	_	12,900	11,800	12,600	13,300			
Total	_	_	8.0	6.2‡	6.6	10.4	+3.7 sss	_	_	14.2	11.0‡	13.1	21.7	+8.5 sss	_	_	16.3	12.5‡	16.6	26.7	+9.9 sss		
Gender:																							
Male	_	_	8.6	7.0‡	7.2	10.5	+3.3 ss	_	_	17.2	12.1‡	13.3	21.2	+7.9 sss	_	_	20.9	16.1‡	21.0	30.0	+9.1 sss		
Female	_	_	7.4	5.4‡	6.2	10.1	+4.0 sss	_	_	11.1	9.7‡	12.7	21.8	+9.1 sss	_	_	11.2	9.1‡	12.8	23.8	+10.9 sss		
College Plans:																							
None or under 4 years	_	_	15.7	18.2‡	14.6	19.2	+4.6	_	_	26.0	19.3‡	22.0	25.8	+3.7	_	_	25.8	17.7‡	21.8	29.2	+7.4 s		
Complete 4 years	_	_	7.3	5.3‡	5.8	9.3	+3.5 sss	_	_	13.0	9.9‡	12.0	21.0	+9.0 sss	_	_	14.2	11.6‡	15.1	26.4	+11.2 sss		
Region:																							
Northeast	_	_	6.1	6.5‡	6.9	7.3	+0.3	_	_	14.0	8.4‡	12.8	24.0	+11.1 ss	_	_	16.0	12.8‡	18.3	32.9	+14.6 ss		
Midwest	_	_	7.9	7.2‡	7.6	12.5	+4.9 ss	_	_	14.7	11.3‡	15.9	23.4	+7.6 ss	_	_	17.2	14.8‡	17.1	25.6	+8.5 s		
South	_	_	8.8	5.7‡	5.5	9.9	+4.4 ss	_	_	16.0	12.1‡	11.9	20.8	+8.9 sss	_	_	15.4	10.7‡	15.0	24.7	+9.7 sss		
West	_	_	8.0	6.1‡	7.5	11.6	+4.1 s	_	_	10.9	11.1‡	12.6	19.4	+6.8 s	_	_	17.3	13.6‡	18.3	26.9	+8.6 s		
Population Density:																							
Large MSA	_	_	6.7	5.6‡	5.3	9.5	+4.2 s	_	_	13.9	13.2‡	14.7	22.3	+7.6 ss	_	_	13.5	12.8‡	16.6	22.2	+5.6		
Other MSA	_	_	7.9	5.9‡	7.3	11.0	+3.8 ss	_	_	13.8	9.0‡	12.3	21.7	+9.4 sss	_	_	17.6	11.8‡	16.1	29.5	+13.4 sss		
Non-MSA	_	_	10.0	8.0‡	7.1	10.2	+3.1	_	_	15.9	12.2‡	12.8	20.7	+7.9 ss	_	_	17.8	14.0‡	18.5	28.1	+9.6 ss		
Parental Education: <sup>a</sup>																							
1.0–2.0 (Low)	_	_	9.7	10.3‡	10.1	12.7	+2.5	_	_	14.2	9.2‡	12.9	20.3	+7.4 s	_	_	11.5	13.2‡	12.2	17.9	+5.7		
2.5–3.0	_	_	9.8	7.8‡	8.7	11.3	+2.7	_	_	16.1	15.1‡	14.4	22.2	+7.8 ss	_	_	18.6	12.2‡	17.4	25.7	+8.3 ss		
3.5–4.0	_	_	10.6	6.7‡	6.9	12.2	+5.3 ss	_	_	18.3	11.4‡	13.5	22.9	+9.5 sss	_	_	17.2	11.9‡	14.8	29.1	+14.2 sss		
4.5–5.0	_	_	5.6	5.8‡	5.6	9.7	+4.1 ss	_	_	13.8	10.6‡	13.6	23.1	+9.5 sss	_	_	18.0	13.1‡	20.7	32.3	+11.6 sss		
5.5–6.0 (High) Race/Ethnicity (2-year data): <sup>b</sup>	_	_	6.5	4.0‡	5.8	7.5	+1.7	_	_	9.8	9.4‡	12.0	21.4	+9.4 sss	_	_	11.4	12.2‡	17.5	31.0	+13.5 sss		
White	_	_	_	6.4‡	_	8.7	_	_	_	_	14.8‡	_	21.5	_	_	_	_	17.4‡	_	28.0	_		
African American	_	_	_	6.2‡	_	3.3	_	_	_	_	6.4‡	_	7.0	_	_	_	_	6.5‡	_	8.3	_		
Hispanic		_	_	8.4‡		9.3	_	_	_	_	10.3‡	_	14.1	_	_	_	_	11.5‡	_	15.2			

Source. The Monitoring the Future study, the University of Michigan.

Notes.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions. The 2017 results by race/ethnicity are based on data from the old version of the question in 2016 combined with the new version in 2017.

# Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&#</sup>x27;-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

<sup>‡&#</sup>x27; indicates some change in the question. Se relevant footnote for that drug. See relevant figures to assess the impact of the change.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

bTo derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

en 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

TABLE 142

Vaping Nicotine: Trends in 30-Day

Prevalence of Use by Subgroups in Grades 8, 10, and 12

_	Percentage who used in last 30 days														_						
•				8th Grad	ers						10th Grad	<u>ders</u>		_							
							2017-							2017-							2017-
	1991–						2018	1991-						2018	1976-						2018
	<u>2013</u>	2014	<u>2015</u>	2016	<u>2017</u>	2018	<u>change</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	2018	<u>change</u>	2013	2014	<u>2015</u>	2016	2017	2018	<u>change</u>
Approximate weighted N =	_	_	_	_	15,300	14,000		_	_	_	_	13,500	14,300		_	_	_	_	12,600	13,300	
Total	_	_	_	_	3.5	6.1	+2.6 sss	_	_	_	_	8.2	16.1	+7.9 sss	_	_	_	_	11.0	20.9	+10.0 sss
Gender:																					
Male	_	_	_	_	3.7	6.8	+3.1 ss	_	_	_	_	8.2	16.2	+7.9 sss	_	_	_	_	14.3	24.1	+9.8 sss
Female	_	_	_	_	3.3	5.3	+2.0 ss	_	_	_	_	8.1	15.9	+7.8 sss	_	_	_	_	8.0	18.4	+10.4 sss
College Plans:																					
None or under 4 years	_	_	_	_	9.2	12.8	+3.5	_	_	_	_	13.5	20.4	+6.9 s	_	_	_	_	14.5	22.9	+8.5 ss
Complete 4 years	_	_	_	_	2.9	5.3	+2.4 sss	_	_	_	_	7.6	15.6	+8.0 sss	_	_	_	_	10.2	20.7	+10.5 sss
Region:																					
Northeast	_	_	_	_	3.2	4.4	+1.2	_	_	_	_	7.9	18.1	+10.2 sss	_	_	_	_	11.3	25.3	+14.0 sss
Midwest	_	_	_	_	4.1	9.2	+5.0 sss	_	_	_	_	10.3	18.3	+8.1 sss	_	_	_	_	11.5	20.9	+9.5 s
South	_	_	_	_	3.2	5.2	+2.0 s	_	_	_	_	7.5	15.7	+8.2 sss	_	_	_	_	10.1	19.2	+9.1 sss
West	_	_	_	_	3.8	6.1	+2.3	_	_	_	_	7.5	12.9	+5.4 s	_	_	_	_	11.7	20.8	+9.1 s
Population Density:																					
Large MSA	_	_	_	_	2.5	6.0	+3.5 ss	_	_	_	_	9.7	17.9	+8.1 sss	_	_	_	_	10.0	17.2	+7.2 s
Other MSA	_	_	_	_	3.7	6.7	+2.9 ss	_	_	_	_	7.1	14.8	+7.7 sss	_	_	_	_	10.7	23.1	+12.4 sss
Non-MSA	_	_	_	_	4.5	5.0	+0.5	_	_	_	_	8.5	16.4	+7.9 sss	_	_	_	_	13.0	22.3	+9.3 ss
Parental Education: a																					
1.0-2.0 (Low)	_	_	_	_	5.9	5.7	-0.2	_	_	_	_	5.7	16.4	+10.7 sss	_	_	_	_	7.8	11.4	+3.6
2.5-3.0	_	_	_	_	3.8	5.8	+2.1	_	_	_	_	10.1	16.4	+6.3 ss	_	_	_	_	11.7	17.9	+6.2 s
3.5-4.0	_	_	_	_	3.8	8.1	+4.3 ss	_	_	_	_	8.2	14.7	+6.5 ss	_	_	_	_	9.6	21.5	+11.9 sss
4.5-5.0	_	_	_	_	3.5	5.8	+2.3 s	_	_	_	_	8.5	17.9	+9.4 sss	_	_	_	_	14.7	28.2	+13.4 sss
5.5-6.0 (High)	_	_	_	_	2.8	4.8	+2.0	_	_	_	_	7.9	18.1	+10.2 sss	_	_	_	_	10.5	27.1	+16.6 sss
Race/Ethnicity (2-year data): b																					
White	_	_	_	_	_	5.5	_	_	_	_	_	_	16.4	_	_	_	_	_	_	22.9	_
African American	_	_	_	_	_	1.6	_	_	_	_	_	_	2.7	_	_	_	_	_	_	4.6	_
Hispanic	_	_	_	_	_	4.7	_	_	_	_	_	_	8.5	_	_	_	_	_	_	7.7	_

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 143

Vaping Marijuana: Trends in 30-Day

Prevalence of Use by Subgroups in Grades 8, 10, and 12

_	Percentage who used in last 30 days														_						
			1	8th Grade	ers					1	0th Grad	ders									
							2017-							2017-							2017-
	1991–						2018	1991–						2018	1976-						2018
	2013	2014	2015	2016	2017	2018	<u>change</u>	<u>2013</u>	2014	2015	<u>2016</u>	2017	2018	<u>change</u>	<u>2013</u>	2014	<u>2015</u>	2016	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	_	_	_	15,300	14,000		_	_	_	_	13,500	14,300		_	_	_	_	12,600	13,300	
Total	_	_	_	_	1.6	2.6	+1.0 ss	_	_	_	_	4.3	7.0	+2.7 sss	_	_	_	_	4.9	7.5	+2.5 sss
Gender:																					
Male	_	_	_	_	1.8	2.9	+1.1	_	_	_	_	4.7	6.9	+2.2 s	_	_	_	_	7.2	9.5	+2.4
Female	_	_	_	_	1.6	2.3	+0.8	_	_	_	_	3.8	6.9	+3.1 ss	_	_	_	_	2.9	5.5	+2.6 sss
College Plans:																					
None or under 4 years	_	_	_	_	4.9	8.7	+3.8	_	_	_	_	8.7	9.3	+0.6	_	_	_	_	5.8	8.3	+2.6
Complete 4 years	_	_	_	_	1.2	1.8	+0.6	_	_	_	_	3.7	6.6	+2.9 sss	_	_	_	_	4.5	7.1	+2.6 ss
Region:																					
Northeast	_	_	_	_	1.3	1.2	-0.1	_	_	_	_	6.1	9.5	+3.3	_	_	_	_	6.7	13.9	+7.2 sss
Midwest	_	_	_	_	1.3	1.1	-0.2	_	_	_	_	4.4	6.1	+1.7	_	_	_	_	4.1	3.8	-0.3
South	_	_	_	-	1.6	2.7	+1.1	_		_	_	2.6	4.8	+2.1 s	_	_	_	_	3.5	5.0	+1.5
West	_	_	_	_	2.5	5.2	+2.7 ss	_		_	_	5.4	9.7	+4.3 ss	_	_	_	_	6.9	10.7	+3.8 s
Population Density:																					
Large MSA	_	_	_	_	8.0	2.7	+1.9 ss	_		_	_	5.7	8.8	+3.1 s	_	_	_	_	7.1	9.2	+2.1
Other MSA	_	_	_	_	1.9	3.1	+1.2 s	_		_	_	3.8	6.8	+3.0 ss	_	_	_	_	4.3	7.4	+3.1 ss
Non-MSA	_	_	_	_	2.2	1.3	-0.9	_	_	_	_	3.4	4.6	+1.2	_	_	_	_	2.8	4.5	+1.7
Parental Education: a																					
1.0-2.0 (Low)	_	_	_	_	3.0	5.3	+2.3	_		_	_	5.1	8.8	+3.7	_	_	_	_	4.8	7.7	+2.9
2.5-3.0	_	_	_	_	2.9	3.9	+1.0	_		_	_	5.5	7.8	+2.3	_	_	_	_	5.4	7.9	+2.5
3.5-4.0	_	_	_	_	1.2	3.2	+2.1 ss	_	_	_	_	4.1	7.7	+3.6 ss	_	_	_	_	3.8	7.4	+3.6 ss
4.5–5.0	_	_	_	-	1.0	1.4	+0.4	_		_	_	3.7	6.3	+2.6 s	_	_	_	_	4.9	7.5	+2.6 s
5.5-6.0 (High)	_	_	_	_	1.2	0.6	-0.5	_	_	_	_	4.5	6.5	+2.0	_	_	_	_	5.7	8.5	+2.8
Race/Ethnicity (2-year data): b																					
White	_	_	_	_	_	1.5	_	_	_	_	_	_	6.1	_	_	_	_	_	_	6.7	_
African American	_	_	_	_	_	1.2	_	_	_	_	_	_	2.6	_	_	_	_	_	_	2.5	_
Hispanic	_	_	_	_	_	3.1	_	_	_	_	_	_	5.7	_	_	_	_	_	_	6.8	_

Notes.

'-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 144
Vaping Just Flavoring: Trends in 30-Day
Prevalence of Use by Subgroups in Grades 8, 10, and 12

_	Percentage who used in last 30 days														_						
			1	8th Grade	ers					1	0th Grad	ders e									
							2017-							2017-							2017-
	1991–						2018	1991–						2018	1976-						2018
	2013	2014	2015	2016	2017	2018	<u>change</u>	<u>2013</u>	2014	2015	2016	2017	2018	<u>change</u>	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	_	_	_	_	15,300	14,000		_	_	_	_	13,500	14,300		_	_	_	_	12,600	13,300	
Total	_	_	_	-	5.3	8.1	+2.8 sss	_	_	_	_	9.2	13.1	+4.0 sss	_	_	_	_	9.7	13.5	+3.8 sss
Gender:																					
Male	_	_	_	-	6.0	8.1	+2.1	_	_	_	_	9.4	12.9	+3.6 s	_	_	_	_	11.6	15.0	+3.4 s
Female	_	_	_	-	4.8	8.0	+3.2 sss	_	_	_	_	8.9	13.1	+4.2 ss	_	_	_	_	7.9	11.8	+3.9 ss
College Plans:																					
None or under 4 years	_	_	_	-	11.5	13.2	+1.8	_	_	_	_	15.4	16.2	+0.8	_	_	_	_	13.0	15.3	+2.3
Complete 4 years	_	_	_	-	4.8	7.4	+2.6 sss	_	_	_	_	8.4	12.6	+4.2 sss	_	_	_	_	8.6	13.0	+4.4 sss
Region:																					
Northeast	_	_	_	-	5.2	5.6	+0.4	_	_	_	_	8.8	13.4	+4.6	_	_	_	_	10.4	15.2	+4.8
Midwest	_	_	_	_	7.0	10.3	+3.3	_	_	_	_	10.8	15.2	+4.4	_	_	_	_	9.8	13.7	+3.9
South	_	_	_	_	4.1	7.5	+3.4 ss	_	_	_	_	8.5	12.8	+4.2 s	_	_	_	_	9.1	13.6	+4.5 ss
West	_	_	_	_	5.8	8.7	+2.9	_	_	_	_	8.8	11.3	+2.5	_	_	_	_	9.9	11.9	+2.0
Population Density:																					
Large MSA	_	_	_	-	4.5	7.2	+2.7	_	_	_	_	8.6	11.9	+3.3 s	_	_	_	_	8.8	9.7	+0.9
Other MSA	_	_	_	-	5.8	8.6	+2.8 s	_	_	_	_	9.6	13.7	+4.0 s	_	_	_	_	9.7	15.6	+5.9 sss
Non-MSA	_	_	_	_	5.4	8.3	+2.9 s	_	_	_	_	8.8	13.7	+4.9	_	_	_	_	11.0	15.2	+4.2 s
Parental Education: a																					
1.0-2.0 (Low)	_	_	_	_	7.5	8.5	+1.0	_	_	_	_	8.7	14.9	+6.2 s	_	_	_	_	7.5	11.4	+3.9
2.5-3.0	_	_	_	_	7.4	8.1	+0.7	_	_	_	_	10.3	14.5	+4.2 s	_	_	_	_	9.4	13.9	+4.5 ss
3.5-4.0	_	_	_	_	5.5	9.9	+4.3 s	_	_	_	_	10.6	14.5	+4.0 s	_	_	_	_	8.1	16.9	+8.7 sss
4.5–5.0	_	_	_	_	4.6	7.8	+3.2 s	_	_	_	_	8.7	12.4	+3.6 s	_	_	_	_	12.1	14.5	+2.4
5.5-6.0 (High)	_	_	_	_	4.5	6.9	+2.5	_	_	_	_	8.6	11.7	+3.1	_	_	_	_	11.1	11.3	+0.3
Race/Ethnicity (2-year data): b																					
White	_	_	_	_	_	7.2	_	_	_	_	_	_	13.1	_	_	_	_	_	_	13.5	_
African American	_	_	_	_	_	2.4	_	_	_	_	_	_	4.8	_	_	_	_	_	_	5.6	_
Hispanic	_	_	_	_	_	7.2	_	_	_	_	_	_	9.4	_	_	_	_	_	_	9.6	

Notes.

'-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; *N* is one third of *N* indicated in S1 and S2. For 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 145
SMOKELESS TOBACCO: Trends in <u>30-Day Prevalence</u> of Use by Subgroups in <u>Grade 8</u>

						Perce	entage w	ho used	in last 30	0 days						
	<u>1991</u>	<u>1992</u>	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	
Total	6.9	7.0	6.6	7.7	7.1	7.1	5.5	4.8	4.5	4.2	4.0	3.3	4.1	4.1	3.3	
Gender:																
Male	12.7	12.5	10.9	12.8	11.8	11.4	9.9	8.1	6.9	6.7	6.9	5.4	6.7	6.4	5.3	
Female	1.4	2.0	2.7	2.4	2.9	2.9	1.5	1.5	2.1	1.8	1.4	1.3	1.8	1.7	1.5	
College Plans:																
None or under 4 years	12.7	17.1	15.5	16.7	15.4	16.4	12.6	13.9	13.2	11.4	14.6	10.2	12.8	12.3	10.8	
Complete 4 years	6.1	5.5	5.3	6.5	6.0	5.6	4.6	3.8	3.5	3.4	2.9	2.6	3.3	3.2	2.4	
Region:																
Northeast	5.0	4.9	3.4	6.1	5.4	4.9	3.2	2.7	2.5	2.7	3.7	2.7	3.1	3.4	1.4	
Midwest	7.1	7.5	7.2	7.1	7.6	8.3	6.8	4.3	5.3	4.8	4.0	3.9	3.5	4.2	3.2	Table cont
South	9.5	9.3	8.0	9.9	8.7	8.1	6.7	6.9	5.9	5.8	5.4	4.1	5.9	5.5	5.3	
West	3.5	4.4	6.3	6.0	5.0	5.9	4.1	3.9	2.9	1.9	2.1	1.5	2.5	2.0	1.4	
Population Density:																
Large MSA	4.8	4.2	3.3	4.6	4.1	4.2	3.6	2.9	1.8	2.4	2.4	1.5	2.6	1.9	1.3	
Other MSA	6.2	6.9	6.8	6.4	6.7	7.1	4.7	4.1	3.9	3.9	3.5	2.9	3.7	3.6	2.8	
Non-MSA	10.4	10.3	9.9	13.0	11.2	10.6	9.0	8.5	8.9	7.0	7.0	6.2	6.9	7.7	7.0	
Parental Education: a																
1.0-2.0 (Low)	11.4	7.8	9.4	8.9	10.6	6.3	8.3	5.4	6.6	7.4	5.0	4.5	6.8	6.9	5.7	
2.5-3.0	8.4	8.5	7.5	8.4	9.9	8.8	6.0	5.1	5.7	5.2	5.4	5.1	5.1	6.0	4.9	
3.5-4.0	6.7	7.0	7.5	8.7	7.0	7.2	6.5	5.9	4.5	4.5	3.7	3.2	4.1	3.5	3.1	
4.5-5.0	4.8	7.0	5.2	6.1	5.0	6.8	4.8	4.4	3.3	2.9	2.5	2.4	3.1	3.2	2.4	
5.5-6.0 (High)	6.1	4.6	4.9	6.8	5.8	5.9	3.7	3.9	3.1	3.0	4.2	2.5	2.7	2.9	1.8	
Race/Ethnicity (2-year average): b																
White	_	8.3	8.0	8.1	8.9	8.8	7.6	6.1	5.4	5.2	4.8	4.1	3.9	4.4	4.2	
African American	_	1.8	2.7	3.2	2.6	2.2	2.6	2.3	2.3	2.7	2.2	1.6	2.7	3.0	2.0	
Hispanic	_	4.2	4.0	5.0	5.7	5.2	4.6	4.5	4.6	3.7	3.3	4.0	4.7	4.0	2.6	

TABLE 145 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

					Perce	ntage w	ho used	in last 30	days (					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14.400	16.900	15.300		criange
Approximate weighted N =	3.7	3.2	3.5	3.7	4.1	3.5	2.8	2.8	3.0	3.2	2.5	15,300	2.1	+0.3
Gender:	3.1	3.2	3.3	3.7	4.1	3.3	2.0	2.0	3.0	5.2	2.5	1.7	2.1	+0.5
Male	5.3	4.7	5.5	6.3	6.3	4.9	4.0	3.8	3.8	4.0	3.6	2.2	3.0	+0.8
Female	2.1	1.7	1.5	1.4	1.9	1.9	1.5	1.9	2.2	2.3	1.4	1.3	1.1	-0.2
College Plans:	2.1	1.7	1.0	1.4	1.5	1.0	1.5	1.5	2.2	2.5	1.4	1.0		-0.2
None or under 4 years	11.3	8.9	12.7	11.1	14.0	11.1	11.5	9.2	9.6	11.3	9.1	7.2	6.7	-0.4
Complete 4 years	2.9	2.7	2.7	3.1	3.2	2.8	2.1	2.4	2.4	2.4	2.0	1.2	1.4	+0.1
Region:	2.0	2.1	2.1	0.1	5.2	2.0	2.1	2.7	2.7	2.7	2.0	1.2	1.4	10.1
Northeast	2.9	1.5	2.5	3.2	3.9	2.9	2.6	1.8	1.3	1.7	1.9	1.9	2.0	0.0
Midwest	4.0	2.9	3.4	3.0	4.8	3.3	2.1	1.4	2.7	2.8	2.4	1.4	2.0	+0.6
South	4.6	4.1	5.2	5.6	5.0	4.3	3.6	4.7	3.7	4.0	3.3	1.9	1.5	-0.4
West	2.2	2.8	1.8	1.8	1.9	2.6	2.0	2.0	3.2	3.0	1.6	1.6	3.1	+1.5
Population Density:		2.0				2.0	2.0	2.0	0.2	0.0			0	
Large MSA	1.9	1.9	2.8	2.5	2.3	1.8	1.4	1.7	1.8	1.8	1.0	1.3	1.2	-0.1
Other MSA	3.1	3.1	3.1	3.6	4.7	3.7	3.1	2.6	2.7	2.8	2.6	1.6	2.0	+0.4
Non-MSA	7.1	5.3	5.4	5.8	5.0	5.4	4.2	4.9	5.2	5.8	4.7	2.7	3.5	+0.9
Parental Education: a														
1.0-2.0 (Low)	5.9	4.9	5.4	5.3	5.2	6.6	4.2	4.1	5.6	4.4	3.4	2.9	1.8	-1.1
2.5–3.0	3.9	3.7	5.1	5.5	6.0	4.2	3.8	3.5	4.4	4.0	2.8	2.3	3.1	+0.9
3.5-4.0	3.7	3.1	3.8	4.9	4.1	3.3	3.2	3.7	3.0	3.6	3.2	2.2	2.9	+0.8
4.5–5.0	3.1	2.5	2.4	2.9	3.3	2.7	2.0	1.6	1.9	2.5	2.0	1.0	1.5	+0.5
5.5-6.0 (High)	3.4	2.3	2.3	1.4	2.5	1.5	1.4	1.8	1.9	1.9	1.2	0.5	0.9	+0.4
Race/Ethnicity (2-year average): b														
White	3.7	3.8	3.9	4.4	4.9	4.6	3.6	3.1	3.4	3.5	3.4	2.6	1.9	-0.7 S
African American	2.1	2.3	2.4	2.6	2.2	1.8	1.8	2.2	2.0	2.2	2.4	1.9	1.8	-0.2
Hispanic	3.1	2.9	2.4	2.5	2.6	3.2	3.1	2.4	2.6	2.7	2.2	1.9	2.0	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; N is one half of N indicated in Table S1. In 2011 snus and dissolvable tobacco were added to the list of examples.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 146
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

						Perce	entage w	ho used	in last 30	) days						
	<u>1991</u>	<u>1992</u>	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	
Approximate weighted N =		14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	10.0	9.6	10.4	10.5	9.7	8.6	8.9	7.5	6.5	6.1	6.9	6.1	5.3	4.9	5.6	
Gender:																
Male	18.7	18.1	19.3	19.2	17.2	15.0	14.9	13.8	12.2	11.4	12.7	9.9	9.6	9.0	9.7	
Female	1.3	1.8	2.0	2.1	2.1	2.3	2.7	1.7	1.3	1.3	1.6	2.1	1.3	1.0	1.6	
College Plans:																
None or under 4 years	16.9	17.5	20.2	19.9	20.3	16.3	18.5	17.8	13.2	13.9	16.0	13.6	13.0	12.2	13.3	
Complete 4 years	8.4	8.0	8.4	8.5	7.8	7.2	7.2	5.7	5.4	4.8	5.4	4.8	4.1	3.9	4.5	
Region:																
Northeast	8.6	5.3	8.0	9.0	7.6	6.8	9.3	6.5	5.2	4.6	4.9	4.7	4.5	5.1	4.6	
Midwest	11.0	9.6	10.0	10.0	11.0	9.5	7.1	7.9	8.1	6.2	7.0	4.8	4.9	3.7	5.7	
South	11.6	11.4	11.8	11.7	10.9	10.2	10.2	9.5	7.9	7.7	9.6	8.3	7.5	7.3	7.0	
West	7.8	10.9	11.1	10.9	7.7	6.0	8.2	4.6	4.0	4.5	3.0	5.1	3.5	3.0	4.5	
Population Density:																
Large MSA	5.9	6.4	6.5	6.2	5.9	5.5	4.2	3.7	4.6	5.6	4.1	4.5	3.7	3.0	3.2	
Other MSA	9.2	9.3	10.1	10.9	9.2	8.4	8.3	5.7	5.3	4.3	5.7	6.1	4.8	4.3	5.3	
Non-MSA	14.7	13.3	14.1	13.9	15.0	12.2	14.7	15.1	11.3	9.8	12.5	8.2	9.2	9.0	9.4	
Parental Education: a																
1.0–2.0 (Low)	6.6	10.1	10.9	9.4	9.6	8.1	9.0	6.8	7.2	7.4	6.9	6.7	7.4	3.7	4.4	
2.5–3.0	12.1	11.0	12.2	12.5	10.4	9.7	9.4	8.2	7.0	6.4	8.9	8.1	5.0	5.8	6.7	
3.5–4.0	10.6	10.5	10.9	10.2	10.9	8.3	10.3	8.6	7.3	6.3	7.1	5.5	4.9	5.2	6.0	
4.5–5.0	9.3	7.6	9.9	9.8	9.8	8.5	7.2	6.9	6.1	6.2	5.7	5.4	5.7	4.4	5.6	
5.5-6.0 (High)	8.6	8.1	7.0	8.9	6.0	7.7	8.3	5.2	4.8	4.0	4.8	5.2	4.3	4.4	3.8	
Race/Ethnicity (2-year average): b																
White	_	11.4	12.0	12.5	12.0	11.0	10.4	10.0	8.7	7.5	7.5	7.8	6.9	6.1	6.6	
African American	_	2.9	2.3	2.3	2.5	2.5	2.8	2.3	1.6	2.0	3.2	2.6	2.5	2.7	2.5	
Hispanic	_	6.2	6.1	4.3	3.6	4.0	4.6	4.8	4.8	4.5	4.0	4.0	4.1	3.3	3.1	

TABLE 146 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

_					Perce	entage w	ho used	in last 30	) days					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		16,100	15,100	15,900	15,200	14,900	15.000	12,900	13.000	15.600	14.700	13.500	14.300	
Total	5.7	6.1	5.0	6.5	7.5	6.6	6.4	6.4	5.3	4.9	3.5	3.8	3.9	+0.1
Gender:														
Male	10.2	10.2	8.2	11.1	13.0	11.5	11.2	11.1	8.9	7.9	5.8	6.1	6.2	+0.1
Female	1.2	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.8	1.3	1.5	1.4	-0.1
College Plans:														
None or under 4 years	14.9	14.0	14.6	17.5	21.8	17.9	16.8	18.6	17.9	12.3	10.1	10.2	10.2	0.0
Complete 4 years	4.5	5.0	3.8	5.3	5.8	5.2	5.3	5.1	4.1	4.0	2.8	2.9	2.9	0.0
Region:														
Northeast	4.5	5.9	3.3	6.6	6.7	5.6	4.3	6.4	4.1	4.8	2.7	3.0	3.4	+0.4
Midwest	7.5	6.3	7.2	7.7	9.2	6.4	7.9	6.9	5.7	5.1	3.3	4.4	4.2	-0.2
South	6.0	8.3	6.5	7.7	9.1	7.9	8.1	6.9	6.8	5.5	4.6	3.8	5.1	+1.3
West	4.1	3.3	2.2	3.3	4.0	5.4	4.0	5.4	3.6	3.6	2.9	3.8	2.0	-1.9 s
Population Density:														
Large MSA	3.9	4.1	3.4	4.8	5.1	4.6	3.6	5.1	4.1	3.5	2.7	3.4	3.3	-0.2
Other MSA	5.3	5.8	4.4	6.3	7.0	6.1	6.3	5.3	4.4	4.3	2.9	2.6	3.4	+0.8
Non-MSA	9.6	9.9	8.7	9.3	12.1	10.2	10.5	11.2	9.5	8.6	6.8	7.2	5.9	-1.3
Parental Education: a														
1.0-2.0 (Low)	7.4	6.1	5.0	7.9	6.5	6.4	7.2	5.6	4.7	4.7	2.4	3.4	3.0	-0.4
2.5–3.0	7.1	6.9	6.5	7.4	9.1	8.8	7.7	8.4	6.7	7.1	4.9	3.6	4.6	+1.0
3.5–4.0	5.7	6.4	5.4	7.4	8.7	7.2	7.5	6.9	5.8	4.2	4.0	4.6	3.8	-0.8
4.5–5.0	4.9	6.1	4.6	5.4	7.0	5.2	6.1	5.9	4.3	5.0	3.0	3.6	4.2	+0.6
5.5-6.0 (High)	5.3	4.8	2.9	5.6	6.0	5.3	3.8	5.3	4.6	3.8	2.8	3.6	4.0	+0.4
Race/Ethnicity (2-year average): b														
White	6.9	7.3	7.3	7.5	9.1	9.1	8.0	8.1	7.7	6.5	5.7	5.3	5.5	+0.2
African American	3.2	3.3	2.8	2.6	2.3	2.2	2.3	2.2	2.5	2.8	2.4	1.9	1.4	-0.6
Hispanic	3.4	2.7	2.6	2.9	2.8	3.4	4.4	3.4	3.0	3.1	1.9	1.7	2.4	+0.7

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .001, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; N is one half of N indicated in Table S2. In 2011 snus and dissolvable tobacco were added to the list of examples.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 147

SMOKELESS TOBACCO: Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

						F	Percentaç	ge who u	sed in la	st 30 day	'S					
Annountered and total A	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u> <sup>a</sup>
Approximate weighted N =	_	_	_	_	_	_	_	_	_	_	_	15,200	16,300	16,300	16,700	_
Total	_	_	_	_	_	_	_	_	_	_	_	11.5	11.3	10.3	8.4	_
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	22.3	22.8	19.9	15.9	_
Female	_	_	_	_	_	_	_	_	_	_	_	1.6	0.7	1.7	1.2	_
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	_	_	_	_	14.5	15.5	13.1	9.6	_
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	9.8	9.0	8.8	7.7	_
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	9.5	7.3	5.9	5.0	_
Midwest	_	_	_	_	_	_	_	_	_	_	_	13.5	11.3	10.8	8.3	_
South	_	_	_	_	_	_	_	_	_	_	_	12.2	13.7	12.1	9.8	_
West	_		_	_	_	_	_	_	_		_	9.3	11.7	10.9	9.1	_
Population Density:																
Large MSA	_	_	_	_	_	_	_	_	_	_	_	9.0	6.4	7.7	6.8	_
Other MSA	_	_	_	_	_	_	_	_	_	_	_	8.9	10.5	8.5	7.6	_
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	17.1	17.5	16.1	11.7	_
Parental Education: b																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	8.6	11.7	10.7	5.3	_
2.5–3.0	_	_	_	_	_	_	_	_	_	_	_	14.4	11.5	10.7	7.0	_
3.5-4.0	_		_	_	_	_	_	_	_		_	11.5	12.1	10.6	9.0	_
4.5–5.0	_	_	_	_	_	_	_	_	_	_	_	10.4	11.7	11.8	10.2	_
5.5–6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	7.7	8.1	7.2	8.4	_
Race/Ethnicity (2-year average): c																
White	_	_	_	_	_	_	_	_	_	_	_	_	12.9	12.0	10.6	_
African American	_	_	_	_	_	_	_	_	_	_	_		2.1	4.5	4.5	_
Hispanic	_	_	_	_	_	_	_	_	_	_	_	_	4.4	5.2	5.1	_

TABLE 147 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

						Perce	entage w	ho used	in last 30	days					
	<u>1991<sup>a</sup></u>	<u>1992</u>	1993	1994	<u>1995</u>	1996	<u>1997</u>	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	_	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	_	11.4	10.7	11.1	12.2	9.8	9.7	8.8	8.4	7.6	7.8	6.5	6.7	6.7	7.6
Gender:															
Male	_	20.8	19.7	20.3	23.6	19.5	18.7	15.6	15.5	14.4	14.2	12.2	12.5	12.2	12.7
Female	_	2.0	2.3	2.6	1.8	1.1	1.2	1.5	1.3	1.3	1.6	1.2	1.0	1.6	1.9
College Plans:															
None or under 4 years	_	18.0	14.9	15.8	18.7	17.6	16.9	14.3	10.5	15.8	13.0	10.8	12.8	11.9	15.2
Complete 4 years	_	9.4	9.4	9.3	9.9	7.6	7.4	7.1	7.6	5.4	6.1	4.8	4.8	4.9	5.4
Region:															
Northeast	_	8.2	9.6	12.0	9.6	8.4	6.9	2.6	4.3	5.3	5.4	5.3	6.3	5.1	8.0
Midwest	_	12.3	13.6	14.7	16.7	12.6	13.4	11.8	8.9	11.1	9.9	7.8	5.7	7.4	10.5
South	_	12.5	11.1	9.7	11.9	9.2	9.0	10.5	10.7	7.3	8.5	7.9	7.9	8.4	7.5
West	_	11.1	7.0	8.5	8.6	8.5	9.1	7.3	7.0	6.3	6.2	3.9	6.0	4.3	4.0
Population Density:															
Large MSA	_	5.9	7.1	7.5	12.5	8.6	6.5	4.7	4.9	4.2	4.4	3.4	3.4	3.8	4.3
Other MSA	_	11.1	9.9	11.3	9.5	7.4	7.4	7.7	8.5	7.9	8.0	5.7	6.9	5.6	7.8
Non-MSA	_	16.9	15.0	14.7	16.7	15.3	17.9	16.1	11.7	11.4	11.5	11.9	10.4	12.1	11.3
Parental Education: b															
1.0-2.0 (Low)	_	14.9	7.0	12.3	9.8	6.3	5.8	6.1	5.4	4.3	6.3	4.1	9.3	6.1	5.3
2.5–3.0	_	12.4	11.6	12.9	11.5	10.4	10.7	9.0	9.1	9.9	7.5	5.6	5.9	8.8	9.7
3.5-4.0	_	12.4	10.8	9.8	12.8	9.1	10.4	9.8	8.8	8.9	8.6	7.4	6.5	4.6	7.8
4.5–5.0	_	8.0	13.3	11.1	12.8	11.4	9.1	9.6	8.5	6.2	6.2	7.3	7.6	7.9	8.0
5.5-6.0 (High)	_	10.6	7.8	10.2	11.6	8.1	9.9	7.4	7.9	5.7	10.3	4.6	6.2	5.4	3.7
Race/Ethnicity (2-year average): c															
White	_	_	13.8	13.8	13.8	13.0	12.2	11.8	11.0	10.5	10.3	9.7	8.5	8.2	8.7
African American	_	_	2.0	1.9	2.1	2.7	2.2	1.4	1.5	1.5	1.2	1.0	1.0	0.6	0.3
Hispanic	_	_	6.0	5.4	7.6	8.1	5.3	4.3	3.9	3.8	3.2	2.6	3.1	3.9	4.9

TABLE 147 (cont.) **SMOKELESS TOBACCO:** Trends in <u>30-Day</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

					Perce	entage w	ho used	in last 30	days					
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	<u>2011</u> 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	2016 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	6.1	6.6	6.5	8.4	8.5	8.3	7.9	8.1	8.4	6.1	6.6	4.9	4.2	-0.8
Gender:														
Male	11.0	11.9	11.8	15.8	15.7	14.2	13.5	14.6	14.3	10.7	11.9	9.9	7.6	-2.3
Female	1.5	1.2	1.0	1.7	1.7	1.8	1.6	1.4	2.1	1.6	1.5	0.7	1.0	+0.4
College Plans:														
None or under 4 years	13.4	11.7	12.4	14.2	14.4	17.5	15.0	16.1	15.0	14.3	11.7	11.4	8.3	-3.0
Complete 4 years	4.1	5.3	5.0	7.3	7.3	6.4	6.0	6.2	6.5	4.4	5.1	3.4	3.0	-0.4
Region:														
Northeast	5.3	5.3	7.5	7.1	7.6	8.2	7.1	5.6	9.6	5.8	6.7	7.6	3.0	-4.6 ss
Midwest	7.0	9.1	7.2	14.1	12.2	7.8	10.5	11.2	11.8	6.9	7.4	3.5	6.3	+2.8
South	7.5	7.9	6.1	7.1	7.8	8.9	7.7	9.3	5.9	6.1	7.5	5.6	4.9	-0.7
West	3.4	2.8	5.6	4.6	6.7	7.7	5.9	5.2	8.4	5.7	4.3	3.4	1.5	-1.9
Population Density:														
Large MSA	4.8	3.9	2.6	4.4	5.9	5.3	6.4	7.1	3.8	3.1	3.4	2.6	1.7	-1.0
Other MSA	4.6	6.8	6.2	7.7	7.9	8.4	6.4	7.4	9.8	5.1	7.3	5.4	4.3	-1.1
Non-MSA	10.9	10.1	11.8	15.0	13.8	12.4	14.1	11.4	11.1	13.5	10.2	7.8	8.4	+0.6
Parental Education: b														
1.0-2.0 (Low)	4.9	5.3	3.4	2.8	6.1	2.2	5.3	7.9	6.3	6.6	5.5	1.9	0.6	-1.4
2.5–3.0	8.0	9.8	7.2	10.4	8.2	9.3	10.0	7.9	9.3	7.1	7.1	5.4	5.0	-0.4
3.5–4.0	6.4	5.3	6.8	9.4	8.7	8.2	8.5	6.7	8.1	6.5	6.7	6.3	5.2	-1.1
4.5–5.0	6.1	6.6	6.5	7.7	9.8	9.9	8.4	10.5	9.5	6.0	7.8	6.0	4.9	-1.1
5.5-6.0 (High)	3.5	5.8	6.3	8.7	7.5	6.3	4.7	7.7	7.9	4.9	6.2	3.6	4.5	+0.9
Race/Ethnicity (2-year average): c														
White	8.8	8.3	8.6	10.5	12.1	11.8	11.3	11.0	11.4	10.2	9.6	9.4	7.7	-1.7 s
African American	0.5	1.8	2.0	1.5	2.2	1.8	1.0	2.4	2.6	1.3	2.0	2.4	1.7	-0.8
Hispanic	3.8	2.7	2.3	2.5	3.7	3.9	2.5	2.3	3.4	3.6	1.8	1.1	1.2	+0.1

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .001, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; N is one sixth of N indicated in Table S3. In 2011 snus and dissolvable tobacco were added to the list of examples.

#### Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Prevalence of smokeless tobacco use was not asked of 12th graders in 1990 and 1991. Prior to 1990 the prevalence-of-use question on smokeless tobacco was located near the end of one 12th-grade questionnaire form, whereas after 1991 the question was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 148

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

						Percent	age who	used da	ily in last	30 days	3					
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
Approximate weighted N =		18,600	18,300		17,500	17,800			16,700	16,700		15,100	16.500	17.000	16.800	
Total	1.6	1.8	1.5	1.9	1.2	1.5	1.0	1.0	0.9	0.9	1.2	0.8	0.8	1.0	0.7	
Gender:	1.0	1.0	1.0	1.0	1.2	1.0	1.0	1.0	0.0	0.0	1.2	0.0	0.0	1.0	0.1	
Male	3.1	3.4	2.9	3.2	2.2	2.9	1.7	1.8	1.6	1.5	2.5	1.5	1.4	1.7	1.2	
Female	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.2	
College Plans:																
None or under 4 years	4.1	5.6	4.4	5.4	3.5	5.1	3.6	6.1	3.8	2.7	4.5	4.5	4.0	3.8	2.4	
Complete 4 years	1.2	1.2	1.1	1.4	0.9	1.0	0.6	0.5	0.5	0.7	0.9	0.5	0.5	0.7	0.5	
Region:																
Northeast	1.2	0.9	0.6	0.8	0.6	0.8	0.6	0.4	0.1	0.4	0.7	0.6	0.8	1.0	0.1	
Midwest	1.5	1.6	1.6	1.4	1.1	2.0	1.2	1.3	0.9	1.3	1.1	1.1	0.6	0.6	0.3	Table continued on next page.
South	2.4	3.0	2.2	3.3	1.8	2.0	1.5	1.3	1.6	1.3	2.1	1.0	1.3	1.7	1.4	
West	0.6	0.8	1.0	0.9	0.8	0.8	0.2	0.7	0.3	0.2	0.1	0.2	0.2	0.3	0.2	
Population Density:																
Large MSA	0.5	0.6	0.7	0.7	0.4	0.4	0.5	0.4	0.3	0.2	0.3	0.4	0.7	0.4	*	
Other MSA	1.2	1.9	1.5	1.0	0.9	1.2	8.0	0.6	8.0	0.8	0.8	0.6	0.6	0.6	0.5	
Non-MSA	3.3	2.8	2.5	4.6	2.6	3.4	1.6	2.6	1.8	2.0	2.9	1.8	1.5	2.6	1.9	
Parental Education: a																
1.0-2.0 (Low)	2.8	3.5	2.0	3.0	2.2	1.5	3.2	2.6	0.9	1.4	1.8	2.2	1.8	2.8	1.4	
2.5–3.0	2.2	2.6	1.9	2.7	1.7	3.1	1.1	1.5	1.6	1.4	2.1	1.0	1.0	1.1	0.5	
3.5-4.0	1.4	1.2	1.8	1.9	1.2	1.7	0.9	1.3	8.0	1.3	0.3	1.0	8.0	0.8	0.8	
4.5-5.0	8.0	1.3	1.1	1.1	0.9	0.3	8.0	0.5	0.5	0.4	0.5	0.3	0.2	0.7	0.8	
5.5-6.0 (High)	1.0	0.9	0.6	0.7	0.8	8.0	0.4	0.5	0.4	0.4	1.7	0.9	1.1	0.8	0.4	
Race/Ethnicity (2-year average): b																
White	_	2.0	2.0	2.0	1.9	1.7	1.5	1.2	1.1	1.1	1.2	1.0	0.7	0.9	0.9	
African American	_	0.3	0.4	0.7	0.6	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.2	
Hispanic	_	0.8	0.9	0.9	0.7	1.1	0.9	0.8	1.0	0.8	0.8	8.0	0.9	0.9	0.4	

TABLE 148 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

## Percentage who used daily in last 30 days

•														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	<u>change</u>
Approximate weighted N =	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	
Total	0.7	0.8	0.8	0.8	0.9	0.8	0.5	0.5	0.5	0.8	0.6	0.4	0.3	-0.1
Gender:														
Male	1.1	1.6	1.2	1.4	1.5	1.5	8.0	0.9	0.9	1.2	1.2	0.5	0.5	0.0
Female	0.3	0.1	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.3	0.1	0.2	0.1	-0.1
College Plans:														
None or under 4 years	4.0	3.2	5.0	2.5	4.0	3.6	2.3	1.9	3.1	3.3	2.8	2.3	1.4	-0.9
Complete 4 years	0.4	0.6	0.4	0.7	0.6	0.6	0.4	0.4	0.3	0.5	0.4	0.2	0.1	-0.1
Region:														
Northeast	0.6	0.2	0.9	1.1	0.7	0.7	0.5	0.1	0.1	0.2	0.6	8.0	0.2	-0.7 s
Midwest	0.5	0.5	0.4	0.6	0.9	0.6	0.2	0.4	0.3	0.4	0.4	0.2	0.2	0.0
South	1.1	1.5	1.3	1.3	1.5	1.1	0.7	0.9	8.0	1.1	1.0	0.5	0.4	-0.1
West	0.4	0.4	0.3	0.1	0.2	0.4	0.5	0.3	8.0	0.8	0.2	0.1	0.5	+0.4
Population Density:														
Large MSA	0.3	0.4	0.4	0.5	0.4	0.2	0.2	0.1	0.2	0.4	0.1	0.3	0.1	-0.2
Other MSA	0.6	0.7	0.7	0.6	1.1	0.8	0.5	0.5	0.2	0.5	0.7	0.3	0.3	0.0
Non-MSA	1.6	1.7	1.5	1.7	1.1	1.7	1.0	1.2	1.8	1.8	1.3	0.7	0.7	0.0
Parental Education: a														
1.0-2.0 (Low)	1.3	1.9	1.5	1.6	1.0	1.6	0.3	0.9	1.5	0.7	0.9	0.3	0.0	-0.3
2.5–3.0	0.9	1.0	1.3	0.9	1.9	0.9	0.6	8.0	1.3	1.3	0.6	8.0	0.3	-0.4
3.5-4.0	0.7	0.8	0.8	1.3	8.0	0.9	1.0	0.6	0.2	0.3	0.6	0.5	0.6	+0.1
4.5–5.0	0.6	0.6	0.3	0.4	0.4	0.7	0.3	0.3	0.0	0.7	0.2	0.1	0.0	-0.1
5.5-6.0 (High)	0.5	0.5	0.6	0.2	0.2	0.1	0.2	0.2	0.6	0.4	8.0	0.3	0.2	-0.2
Race/Ethnicity (2-year average): b														
White	0.7	0.9	0.9	0.9	1.0	1.0	0.9	0.7	8.0	0.9	0.9	0.7	0.5	-0.3 s
African American	0.5	0.5	0.7	1.0	0.7	0.5	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.0
Hispanic	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.2	0.3	0.0

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '\*' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>1991–1996</sup> and on two of four forms beginning in 1997; N is one half of N indicated in Table S1.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 149
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10

						Percent	age who	used da	ily in las	t 30 days	3					
	<u>1991</u>	<u>1992</u>	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	1997	1998	<u>1999</u>	2000	2001	2002	2003	2004	2005	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	
Total	3.3	3.0	3.3	3.0	2.7	2.2	2.2	2.2	1.5	1.9	2.2	1.7	1.8	1.6	1.9	
Gender:																
Male	6.3	6.3	6.4	5.9	5.2	4.2	4.0	4.3	3.2	3.9	4.5	3.0	3.7	3.0	3.4	
Female	0.2	0.1	0.3	0.2	0.2	0.2	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.2	0.3	
College Plans:																
None or under 4 years	7.6	8.5	8.8	6.5	7.8	5.4	6.3	6.4	3.6	5.9	6.6	4.6	4.8	5.0	5.4	
Complete 4 years	2.3	1.9	2.2	2.2	1.9	1.6	1.5	1.5	1.2	1.2	1.5	1.0	1.3	1.1	1.3	
Region:																
Northeast	1.8	1.0	1.7	3.0	2.0	1.3	1.5	1.2	1.2	0.9	1.1	8.0	1.6	2.1	1.3	
Midwest	3.1	2.9	2.5	2.4	2.5	2.1	1.4	2.1	2.0	2.1	2.1	1.3	1.3	0.8	1.7	
South	4.7	4.5	5.2	3.3	4.1	3.3	3.5	3.8	2.0	2.8	3.6	2.6	3.0	2.6	2.8	
West	2.7	2.9	3.1	3.6	1.1	1.0	1.7	0.8	0.7	1.0	0.9	1.1	0.8	0.6	1.2	
Population Density:																
Large MSA	1.5	1.6	1.1	1.0	1.5	0.6	0.8	1.0	0.8	1.6	0.8	1.3	1.2	8.0	8.0	
Other MSA	3.1	2.8	3.2	3.5	2.3	2.3	1.7	1.5	1.0	1.0	1.7	1.4	1.5	1.3	1.4	
Non-MSA	5.0	4.9	5.3	4.2	4.9	3.6	4.6	5.0	3.5	3.8	5.0	2.6	3.5	3.4	4.2	
Parental Education: a																
1.0-2.0 (Low)	2.5	3.9	4.1	3.2	3.6	1.7	3.8	2.6	1.7	2.4	3.8	1.7	1.7	1.5	2.0	
2.5-3.0	4.8	5.0	4.3	3.8	3.4	3.4	2.0	2.8	1.7	2.3	3.2	1.2	2.1	1.8	2.6	
3.5-4.0	3.3	2.8	3.1	3.0	2.8	1.4	2.4	2.7	1.6	1.6	1.5	2.0	1.9	2.4	2.0	
4.5–5.0	2.5	1.7	2.5	2.7	2.9	2.3	1.7	1.8	1.6	1.9	1.9	1.5	1.7	0.7	1.7	
5.5-6.0 (High)	2.5	1.6	2.7	1.7	1.0	1.4	1.9	0.7	8.0	8.0	1.9	1.3	1.4	0.9	1.2	
Race/Ethnicity (2-year average): b																
White	_	3.8	3.9	3.8	3.3	2.9	2.5	2.7	2.4	2.1	2.4	2.3	2.1	2.1	2.1	
African American	_	0.5	0.4	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.9	8.0	0.4	0.6	0.8	
Hispanic	_	1.1	1.0	0.8	1.2	1.2	1.3	1.3	0.8	0.8	1.0	0.5	0.4	0.9	1.0	

TABLE 149 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10

Percentage who used daily in	last 30 days
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•														2017-2018
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	1.7	1.6	1.4	1.9	2.5	1.7	2.0	1.9	1.8	1.6	1.0	0.6	1.0	+0.4
Gender:														
Male	3.3	2.9	2.6	3.7	4.7	3.3	3.9	3.5	3.4	3.1	1.7	1.2	1.8	+0.5
Female	*	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.4	0.2	0.2	0.1	0.2	+0.1
College Plans:														
None or under 4 years	6.8	4.4	6.2	7.7	8.2	5.2	6.2	7.6	7.7	5.8	4.3	2.4	3.6	+1.2
Complete 4 years	1.0	1.2	0.8	1.3	1.8	1.3	1.6	1.2	1.2	1.2	0.7	0.4	0.7	+0.3
Region:														
Northeast	8.0	1.4	0.5	1.5	2.3	1.2	1.2	1.7	0.9	1.4	0.5	8.0	1.1	+0.3
Midwest	2.2	1.6	2.4	2.8	2.3	1.7	2.5	1.7	1.9	1.8	0.7	0.4	0.9	+0.4
South	2.3	2.6	2.1	2.3	3.7	2.4	2.9	2.7	3.1	2.3	1.7	8.0	1.5	+0.7
West	0.9	0.4	0.2	0.6	0.8	0.9	0.9	1.0	0.5	0.7	8.0	0.4	0.4	0.0
Population Density:														
Large MSA	1.1	1.0	0.7	1.0	1.4	1.2	0.7	1.1	0.9	1.0	0.9	0.6	8.0	+0.2
Other MSA	1.4	1.5	1.1	1.9	2.6	1.0	1.7	1.5	1.3	1.1	0.7	0.3	0.9	+0.6
Non-MSA	3.2	2.6	3.2	3.1	3.8	3.5	4.5	3.7	4.7	4.1	2.0	1.5	1.7	+0.2
Parental Education: a														
1.0-2.0 (Low)	3.6	2.0	1.0	2.9	2.5	2.0	1.5	1.1	2.2	1.5	0.5	0.1	0.5	+0.5
2.5-3.0	2.9	2.1	1.7	2.3	3.4	2.8	3.4	3.0	2.9	3.2	1.7	0.5	1.3	+0.8
3.5-4.0	1.3	1.6	1.9	2.2	3.0	1.4	2.2	2.0	2.3	0.7	1.3	8.0	1.0	+0.2
4.5-5.0	1.1	1.4	1.3	1.3	1.7	1.4	1.7	1.2	1.2	2.1	0.6	0.6	1.0	+0.4
5.5-6.0 (High)	1.3	1.1	0.1	1.7	2.0	1.4	1.3	1.1	0.9	1.1	0.7	0.7	1.1	+0.4
Race/Ethnicity (2-year average): b														
White	2.2	2.1	2.1	2.4	3.1	2.8	2.4	2.7	2.6	2.4	1.8	1.2	1.3	+0.1
African American	8.0	0.6	0.4	0.4	0.6	0.9	0.8	0.7	0.8	1.0	0.9	0.4	0.3	-0.1
Hispanic	0.7	0.3	0.2	0.4	0.5	0.7	0.9	0.5	0.4	0.3	0.3	0.3	0.2	-0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '\*' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; N is one half of N indicated in Table S2.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 150

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

<u>-</u>						Per	centage	who use	d daily in	last 30 c	lays					
Assessment of the State of M.	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u> <sup>a</sup>
Approximate weighted N =	_	_	_	_	_	_	_	_	_	_	_	15,200	16,300	16,300	16,700	_
Total	_	_	_	_	_	_	_	_	_	_	_	4.7	5.1	4.3	3.3	_
Gender:																
Male	_	_	_	_	_	_	_	_	_	_	_	10.0	10.7	8.6	6.8	_
Female	_	_	_	_	_	_	_	_	_	_	_	0.1	0.1	0.5	0.0	_
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	_	_	_	_	7.1	7.8	5.8	4.2	_
Complete 4 years	_	_	_	_	_	_	_	_	_	_	_	3.3	3.7	3.5	2.7	_
Region:																
Northeast	_	_	_	_	_	_	_	_	_	_	_	4.6	2.1	2.3	1.3	_
Midwest	_	_	_	_	_	_	_	_	_	_	_	4.5	4.5	3.5	2.2	_
South	_	_	_	_	_	_	_	_	_	_	_	6.1	7.4	6.3	4.2	_
West	_	_	_	_	_	_	_	_	_	_	_	2.9	5.5	4.0	4.9	_
Population Density:																
Large MSA	_	_	_	_	_	_	_	_	_	_	_	3.4	3.3	3.0	3.0	_
Other MSA	_	_	_	_	_	_	_	_	_	_	_	3.3	4.3	2.5	2.8	_
Non-MSA	_	_	_	_	_	_	_	_	_	_	_	7.8	8.5	8.9	4.6	_
Parental Education: b																
1.0-2.0 (Low)	_	_	_	_	_	_	_	_	_	_	_	1.9	5.6	5.3	1.8	_
2.5–3.0	_	_	_	_	_	_	_	_	_	_	_	7.6	6.9	3.2	3.9	_
3.5-4.0	_	_	_	_	_	_	_	_	_	_	_	3.5	4.7	5.4	3.1	_
4.5–5.0	_	_	_	_	_	_	_	_	_	_	_	3.9	5.0	4.7	4.6	_
5.5-6.0 (High)	_	_	_	_	_	_	_	_	_	_	_	3.3	2.1	3.5	1.2	_
Race/Ethnicity (2-year average): c																
White	_	_	_	_	_	_	_	_	_	_	_	_	5.8	5.4	4.5	_
African American	_	_	_	_	_	_	_	_	_	_	_	_	0.6	1.0	0.5	_
Hispanic	_	_	_	_	_	_	_	_	_	_	_	_	0.8	2.1	2.1	_

TABLE 150 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

	Percentage who used daily in last 30 days														
Approximate weighted N =	1991 <sup>a</sup>	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	<u>1996</u> 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	1999 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	_	4.3	3.3	3.9	3.6	3.3	4.4	3.2	2.9	3.2	2.8	2.0	2.2	2.8	2.5
Gender:															
Male	_	7.8	6.4	7.2	7.2	7.1	8.6	6.0	5.7	6.5	5.6	4.3	4.6	5.6	4.7
Female	_	0.5	0.4	0.3	0.1	0.1	0.2	0.0	0.0	0.4	0.3	0.0	0.0	0.2	0.2
College Plans:															
None or under 4 years	_	7.4	4.3	6.6	6.5	6.8	9.1	6.5	3.4	7.9	4.7	2.4	5.3	5.0	7.1
Complete 4 years	_	3.3	3.1	2.8	2.7	2.6	2.7	2.3	2.6	2.0	2.1	1.4	1.4	2.0	1.5
Region:															
Northeast	_	1.8	1.9	4.5	2.2	3.2	3.5	0.5	1.0	1.3	1.5	1.6	2.7	1.9	2.1
Midwest	_	4.0	4.4	4.7	4.9	4.1	7.0	4.0	3.4	5.0	2.8	2.2	1.1	3.0	3.8
South	_	5.4	4.0	3.5	4.2	3.1	3.6	4.6	4.0	4.0	3.8	2.4	2.6	3.7	2.7
West	_	5.1	1.7	3.2	1.6	2.9	3.0	1.8	1.9	1.6	2.6	1.3	2.2	1.7	1.0
Population Density:															
Large MSA	_	2.0	1.7	2.0	2.1	2.6	3.3	0.9	0.5	0.9	1.4	0.4	0.5	0.8	1.0
Other MSA	_	4.2	3.0	3.6	3.2	1.9	3.3	2.4	3.1	3.7	2.6	2.0	2.2	2.2	2.4
Non-MSA	_	6.5	5.2	6.7	5.8	6.7	7.7	7.6	4.9	5.3	5.0	3.8	4.2	6.2	4.8
Parental Education: b															
1.0-2.0 (Low)	_	6.7	3.9	6.6	2.7	2.2	1.3	2.2	2.1	2.9	4.0	2.2	4.9	3.0	2.2
2.5–3.0	_	4.8	3.5	3.8	4.7	3.6	5.8	5.2	3.7	4.2	3.2	1.7	1.4	4.2	3.5
3.5–4.0	_	5.2	3.3	3.3	2.9	3.6	3.7	2.6	3.5	3.9	2.8	2.1	2.0	2.0	3.7
4.5–5.0	_	2.4	3.7	3.9	3.5	4.6	3.9	3.0	1.9	2.1	2.7	2.4	2.8	2.6	1.8
5.5-6.0 (High)	_	2.6	1.8	2.7	2.7	1.1	5.0	2.5	2.1	2.5	2.5	0.2	1.8	1.9	0.4
Race/Ethnicity (2-year average): c															
White	_	_	4.8	4.7	4.6	4.1	5.0	5.2	4.3	4.3	4.4	3.5	2.9	3.2	3.5
African American	_	_	0.3	0.7	0.6	0.3	0.2	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0
Hispanic	_	_	1.6	0.7	1.2	2.2	1.9	0.8	0.4	0.9	0.6	0.3	0.7	1.1	0.7

TABLE 150 (cont.)

SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

	Percentage who used daily in last 30 days													
Approximate weighted N =	2006 14,200	2007 14,500	2008 14,000	2009 13,700	2010 14,400	<u>2011</u> 14,100	2012 13,700	2013 12,600	2014 12,400	2015 12,900	<u>2016</u> 11,800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	2.2	2.8	2.7	2.9	3.1	3.1	3.2	3.0	3.4	2.9	2.7	2.0	1.6	-0.4
Gender:														
Male	4.3	5.6	5.6	5.8	5.9	6.0	5.7	5.7	6.5	5.8	5.1	4.0	3.2	-0.8
Female	0.1	0.2	0.0	0.4	0.2	0.0	0.3	0.0	0.1	0.0	0.3	0.2	0.3	+0.1
College Plans:														
None or under 4 years	6.1	5.3	6.6	6.4	7.5	7.8	8.4	7.8	8.8	8.6	5.1	6.7	3.6	-3.0
Complete 4 years	1.2	2.1	1.9	2.3	2.1	2.2	2.0	1.8	1.9	1.7	1.9	1.0	1.1	+0.2
Region:														
Northeast	1.9	1.9	1.8	2.1	2.4	3.8	3.2	1.6	3.9	2.1	2.1	1.4	1.1	-0.3
Midwest	2.1	3.9	3.1	4.4	5.3	4.1	3.7	4.9	5.6	3.8	1.9	2.0	2.8	+0.8
South	3.0	4.2	2.7	3.7	3.7	2.9	4.3	2.9	2.5	3.3	3.6	3.0	1.6	-1.4
West	1.0	0.1	3.0	0.7	0.6	1.9	1.3	2.2	2.3	2.0	2.2	0.7	0.6	-0.1
Population Density:														
Large MSA	1.4	1.6	0.5	0.9	0.9	1.6	2.1	1.4	0.9	0.4	1.2	0.3	0.5	+0.2
Other MSA	1.6	2.4	2.1	2.4	2.0	2.9	1.9	2.3	3.5	2.9	3.1	2.3	1.6	-0.8
Non-MSA	4.4	5.8	6.8	6.7	9.2	5.9	8.1	7.0	6.4	7.1	4.0	4.1	3.6	-0.6
Parental Education: b														
1.0-2.0 (Low)	1.3	2.5	0.7	1.2	2.2	8.0	3.1	2.0	0.6	1.2	1.8	0.0		•
2.5-3.0	3.3	3.8	3.4	3.5	3.9	4.7	5.9	3.0	3.8	4.1	3.5	3.1	2.3	-0.8
3.5-4.0	1.7	2.7	2.9	2.5	2.9	2.9	3.1	3.0	3.8	3.5	2.1	2.6	2.8	+0.2
4.5-5.0	2.6	3.1	2.7	3.5	3.2	3.5	2.3	3.7	4.4	2.7	3.2	2.3	1.6	-0.8
5.5-6.0 (High)	1.3	1.8	2.2	3.1	2.8	8.0	1.9	1.5	2.4	1.8	3.3	0.4	0.9	+0.4
Race/Ethnicity (2-year average): c														
White	3.4	3.4	3.8	4.5	4.7	4.6	4.6	4.3	4.6	4.7	4.4	4.1	3.4	-0.7
African American	0.2	8.0	0.9	0.6	1.5	1.4	0.3	0.6	1.3	0.6	0.7	1.1	8.0	-0.4
Hispanic	0.4	0.7	0.6	0.2	0.4	0.5	0.5	0.4	0.5	0.8	0.5	0.0	0.2	+0.2

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; N is one sixth of N indicated in Table S3.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Prevalence of smokeless tobacco use was not asked of 12th graders in 1990 and 1991. Prior to 1990 the prevalence-of-use question on smokeless tobacco was located near the end of one 12th-grade questionnaire form, whereas after 1991 the question was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 151

DISSOLVABLE TOBACCO PRODUCTS: Trends in Annual Prevalence of Use by Subgroups in Grade 8

_		Р	ercentage	e who use	ed in last	12 months	S		•
	1991–								2017–
Assume the state of the dAI	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N = Total	_	15,100 1.0	14,600 1.1	<i>14,600</i> 1.1	14,400 0.9	16,900 0.7	15,300 0.6	14,000 0.6	-0.1
Gender:	_	1.0	1.1	1.1	0.9	0.7	0.6	0.6	-0.1
Male		0.0	4.5	4.0	4.4	0.7	0.0	0.0	+0.1
	_	0.8	1.5	1.3	1.1	0.7	0.8	0.9	
Female	_	1.0	8.0	1.0	8.0	0.6	0.5	0.3	-0.2
College Plans:									
None or under 4 years	_	4.4	4.5	6.1	3.3	4.5	3.5	2.1	-1.4
Complete 4 years	_	8.0	0.9	0.7	0.7	0.3	0.3	0.4	0.0
Region:									
Northeast	_	0.3	0.5	1.4	0.5	0.2	0.3	0.6	+0.3
Midwest	_	8.0	0.4	0.5	1.0	0.4	0.2	0.1	-0.2
South	_	1.4	1.7	1.2	1.2	1.1	1.0	1.0	+0.1
West	_	1.1	1.3	1.4	0.7	0.5	8.0	0.3	-0.5
Population Density:									
Large MSA	_	1.2	1.0	1.2	8.0	8.0	0.5	8.0	+0.3
Other MSA	_	0.7	1.1	0.8	1.0	0.5	0.8	0.4	-0.4
Non-MSA	_	1.3	1.3	1.7	0.9	1.0	0.4	0.4	-0.1
Parental Education: a									
1.0-2.0 (Low)	_	1.2	2.6	2.4	1.3	2.1	1.1	0.6	-0.6
2.5-3.0	_	1.3	0.7	1.9	1.1	0.7	0.3	0.3	0.0
3.5-4.0	_	1.4	1.7	0.8	1.4	0.8	0.7	0.2	-0.4
4.5–5.0	_	0.7	0.7	8.0	0.6	0.2	0.4	0.5	+0.1
5.5-6.0 (High)	_	0.6	0.8	0.8	0.2	0.2	0.8	0.8	0.0
Race/Ethnicity (2-year data): b									
White	_	_	0.8	1.0	0.9	0.4	0.3	0.3	0.0
African American	_	_	1.2	1.0	1.0	1.1	0.9	1.4	+0.5
Hispanic	_	_	1.7	1.6	1.2	0.9	0.9	0.8	-0.1

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S1.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 152

DISSOLVABLE TOBACCO PRODUCTS: Trends in Annual
Prevalence of Use by Subgroups in Grade 10

		Р	ercentage	e who use	ed in last	12 months	S		-
	1991–								2017– 2018
	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	1.6	1.2	1.3	1.1	0.9	0.6	1.1	+0.4
Gender:									
Male	_	2.3	2.0	1.9	1.4	1.3	0.9	1.6	+0.7
Female	_	0.9	0.6	0.7	0.6	0.5	0.3	0.5	+0.2
College Plans:									
None or under 4 years	_	5.6	2.8	5.9	4.1	3.0	1.3	1.9	+0.6
Complete 4 years	_	1.2	1.0	8.0	0.7	0.7	0.5	0.9	+0.4
Region:									
Northeast	_	0.5	1.0	1.1	0.6	1.1	0.1	1.2	+1.1 ss
Midwest	_	1.7	1.2	0.9	1.0	1.0	0.9	1.2	+0.3
South	_	1.7	1.6	1.3	0.9	0.9	0.5	8.0	+0.4
West	_	2.1	0.9	1.9	1.6	0.7	1.0	1.1	+0.2
Population Density:									
Large MSA	_	1.4	8.0	1.1	0.7	0.7	0.6	1.2	+0.6
Other MSA	_	1.5	1.0	1.0	1.0	0.9	0.6	0.9	+0.3
Non-MSA	_	1.9	2.2	2.6	1.7	1.2	0.7	1.2	+0.5
Parental Education: a									
1.0-2.0 (Low)	_	2.2	1.4	0.5	2.8	0.9	0.9	1.5	+0.6
2.5-3.0	_	2.2	2.0	1.2	1.6	1.2	0.1	1.9	+1.8 ss
3.5-4.0	_	2.3	1.0	2.2	0.7	0.9	0.7	0.7	0.0
4.5–5.0	_	0.6	1.1	0.9	0.6	0.6	0.7	8.0	+0.1
5.5-6.0 (High)	_	1.1	0.9	0.7	8.0	0.7	0.3	0.8	+0.5
Race/Ethnicity (2-year data): b									
White	_	_	1.4	1.3	1.1	0.7	0.6	0.9	+0.3
African American	_	_	8.0	1.2	1.3	1.1	0.7	0.5	-0.2
Hispanic		_	1.4	1.0	1.0	1.4	1.4	1.2	-0.1

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S2.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 153

DISSOLVABLE TOBACCO PRODUCTS: Trends in Annual
Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months												
	2009–									2017– 2018			
	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>			
Approximate weighted N =	_	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300				
Total	_	1.5	1.6	1.9	1.1	1.4	1.1	1.4	1.3	-0.1			
Gender:													
Male	_	1.8	2.4	3.3	1.1	1.8	1.2	2.3	1.0	-1.3			
Female	_	1.0	0.4	0.5	0.7	0.7	0.6	0.2	0.7	+0.5			
College Plans:													
None or under 4 years	_	3.0	1.7	3.9	4.6	2.3	4.1	1.0	3.4	+2.4 s			
Complete 4 years	_	1.1	1.6	1.3	0.3	1.0	0.5	1.2	0.4	-0.8 s			
Region:													
Northeast	_	1.3	1.4	1.3	0.3	1.1	0.7	0.5	0.6	+0.1			
Midwest	_	0.5	8.0	2.0	8.0	0.5	0.2	1.3	2.3	+0.9			
South	_	2.4	2.2	1.5	1.5	2.5	2.0	1.8	1.5	-0.3			
West	_	1.5	2.0	2.7	1.3	0.6	0.6	1.5	0.5	-1.0			
Population Density:													
Large MSA	_	1.7	1.7	1.8	1.9	0.7	0.9	1.0	2.1	+1.1			
Other MSA	_	1.4	1.4	1.6	8.0	1.8	1.3	1.5	0.9	-0.6			
Non-MSA	_	1.5	2.1	2.7	0.7	1.4	1.0	1.9	8.0	-1.1			
Parental Education: a													
1.0-2.0 (Low)	_	0.6	1.1	3.8	2.5	1.9	1.6	4.0	1.9	-2.1			
2.5-3.0	_	2.7	2.5	1.0	1.9	0.6	1.4	1.5	8.0	-0.7			
3.5-4.0	_	1.1	1.6	2.3	1.0	1.0	2.2	0.7	8.0	+0.1			
4.5-5.0	_	0.5	1.3	1.5	0.1	2.1	0.3	0.4	0.3	-0.1			
5.5-6.0 (High)	_	1.9	0.7	1.7	0.1	0.4	0.0	1.3	1.4	+0.1			
Race/Ethnicity (2-year data): b													
White	_	_	1.6	1.8	1.5	1.2	0.9	0.5	0.8	+0.2			
African American	_	_	1.5	1.8	1.9	2.4	2.7	2.5	1.7	-0.8			
Hispanic		_	1.0	1.4	1.1	0.5	1.0	1.4	1.1	-0.2			

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for

for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; N is one sixth of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 154

SNUS: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

	Percentage who used in last 12 months											
									2017-			
	1991–								2018			
	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>			
Approximate weighted N =	_	15,100	14,600	14,600	14,400	16,900	15,300	14,000				
Total	_	2.4	2.0	2.2	1.9	2.2	1.1	1.3	+0.2			
Gender:												
Male	_	3.3	3.3	3.1	3.0	3.3	1.7	2.1	+0.4			
Female	_	1.5	8.0	1.5	1.0	1.0	0.5	0.7	+0.2			
College Plans:												
None or under 4 years	_	9.0	7.4	8.9	6.0	9.5	4.7	3.7	-0.9			
Complete 4 years	_	2.0	1.6	1.6	1.5	1.5	8.0	1.0	+0.3			
Region:												
Northeast	_	1.8	1.1	1.4	1.2	1.1	0.5	0.7	+0.1			
Midwest	_	2.0	1.2	2.2	2.4	1.3	8.0	0.7	0.0			
South	_	3.4	3.3	2.4	2.3	3.5	1.6	2.1	+0.5			
West	_	1.6	1.4	2.2	1.0	1.4	1.0	1.1	+0.1			
Population Density:												
Large MSA	_	1.2	1.6	1.1	8.0	1.0	0.5	0.9	+0.4			
Other MSA	_	2.4	1.8	1.7	1.7	2.1	1.0	0.9	-0.1			
Non-MSA	_	4.5	3.0	4.6	3.9	4.0	2.3	2.9	+0.6			
Parental Education: a												
1.0-2.0 (Low)	_	2.2	3.0	3.1	1.1	3.2	1.2	0.7	-0.5			
2.5-3.0	_	3.9	2.0	3.5	2.7	2.6	1.5	8.0	-0.7			
3.5-4.0	_	3.9	3.0	2.2	1.7	2.4	1.5	1.5	0.0			
4.5–5.0	_	1.5	1.4	1.4	2.1	1.3	0.7	2.2	+1.5 s			
5.5-6.0 (High)	_	1.1	1.3	1.2	0.9	0.9	1.0	1.1	0.0			
Race/Ethnicity (2-year data): b												
White	_	_	2.7	2.6	2.7	2.5	1.9	1.4	-0.5			
African American	_	_	0.9	0.7	0.9	1.4	1.4	1.4	0.0			
Hispanic	_	_	1.8	1.5	1.0	1.3	1.3	0.9	-0.4			

Notes.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S1.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined

TABLE 155

SNUS: Trends in <u>Annual</u> Prevalence of Use by Subgroups in Grade 10

		Р	ercentage	e who use	ed in last	12 month	S		
·									2017-
	1991–								2018
	2011	2012	2013	<u>2014</u>	<u>2015</u>	2016	2017	2018	<u>change</u>
Approximate weighted N =	_	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	_	6.9	5.2	4.5	4.0	3.0	2.6	3.1	+0.5
Gender:									
Male	_	12.1	9.3	7.5	6.5	5.1	4.5	5.6	+1.2
Female	_	2.1	1.3	1.7	1.7	1.1	8.0	0.7	-0.1
College Plans:									
None or under 4 years	_	17.5	16.0	15.1	8.2	9.1	7.1	7.8	+0.8
Complete 4 years	_	5.8	4.0	3.4	3.6	2.3	2.1	2.4	+0.3
Region:									
Northeast	_	6.2	5.5	3.3	4.0	2.6	1.8	2.4	+0.6
Midwest	_	7.8	6.7	5.7	4.8	2.9	3.1	3.4	+0.3
South	_	8.4	5.0	5.2	4.7	3.6	3.6	4.1	+0.5
West	_	4.2	3.8	3.5	2.1	2.6	1.4	1.7	+0.3
Population Density:									
Large MSA	_	4.1	3.1	3.4	2.9	2.0	2.8	2.2	-0.6
Other MSA	_	7.4	4.8	3.9	3.7	2.5	1.5	2.8	+1.4
Non-MSA	_	9.6	8.9	8.1	6.7	6.2	5.2	5.1	0.0
Parental Education: a									
1.0-2.0 (Low)	_	4.9	4.8	3.4	3.8	2.1	2.1	2.8	+0.6
2.5-3.0	_	8.5	6.9	4.3	5.3	4.0	2.6	3.3	+0.7
3.5-4.0	_	8.3	6.2	5.2	3.8	3.7	3.4	4.3	+1.0
4.5–5.0	_	6.3	3.4	4.7	3.9	2.9	2.1	3.0	+0.8
5.5-6.0 (High)	_	5.4	4.7	4.4	3.7	1.8	2.8	2.2	-0.6
Race/Ethnicity (2-year data): b									
White	_	_	8.1	7.1	6.0	4.9	4.1	4.4	+0.3
African American	_	_	1.6	1.4	2.2	2.1	1.1	0.6	-0.4
Hispanic	_	_	2.6	1.2	1.1	1.6	1.5	1.3	-0.2

Notes.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in S2.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined

TABLE 156
SNUS: Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

			Perce	ntage wh	o used in	last 12 m	onths			_
										2017-
	1975–									2018
	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	7.9	7.9	7.7	5.8	5.8	5.8	4.2	4.7	+0.6
Gender:										
Male	_	13.9	14.1	14.6	9.9	10.5	9.9	7.2	7.6	+0.4
Female	_	1.9	1.2	1.4	1.5	1.3	1.4	1.2	1.1	-0.2
College Plans:										
None or under 4 years	_	15.1	12.2	13.6	16.0	12.8	14.0	7.0	8.0	+1.1
Complete 4 years	_	6.2	6.6	6.1	3.5	4.4	4.0	3.4	3.5	+0.1
Region:										
Northeast	_	7.8	8.0	7.3	6.0	7.8	5.1	4.3	2.3	-2.0
Midwest	_	10.6	8.3	8.3	7.1	5.6	7.3	3.4	8.1	+4.7 s
South	_	6.4	8.8	8.9	5.0	6.8	6.2	5.7	5.0	-0.7
West	_	7.1	6.2	5.5	5.9	2.9	4.1	2.6	2.6	+0.1
Population Density:										
Large MSA	_	6.9	6.1	6.7	3.7	3.6	3.1	3.1	3.6	+0.5
Other MSA	_	6.5	7.8	7.9	5.2	6.8	6.4	3.9	4.5	+0.5
Non-MSA	_	12.2	10.8	8.6	9.6	6.9	8.3	6.4	7.5	+1.1
Parental Education: a										
1.0-2.0 (Low)	_	2.9	4.8	9.2	4.5	4.4	4.0	3.7	2.9	-0.7
2.5–3.0	_	8.8	8.9	5.7	7.5	4.3	3.4	4.5	4.2	-0.3
3.5–4.0	_	9.4	6.8	9.7	5.5	6.0	6.4	4.1	4.8	+0.7
4.5–5.0	_	8.1	10.0	7.5	6.3	7.8	7.7	3.4	4.9	+1.5
5.5-6.0 (High)	_	5.4	6.2	6.7	2.5	5.3	5.3	5.3	4.4	-0.9
Race/Ethnicity (2-year data): b										
White	_	_	10.2	9.9	9.1	8.1	7.6	6.8	6.2	-0.6
African American	_	_	3.4	3.3	2.1	2.2	3.0	2.2	1.1	-1.1
Hispanic	_	_	4.4	4.6	2.9	2.8	3.2	1.9	1.8	-0.1

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the

prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

#### Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined

TABLE 157

STEROIDS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 8</u>

						Percer	tage wh	o used ir	n last 12	months					
	<u>1991</u>	1992	1993	1994	<u>1995</u>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Total	1.0	1.1	0.9	1.2	1.0	0.9	1.0	1.2	1.7	1.7	1.6	1.5	1.4	1.1	1.1
Gender:															
Male	1.8	1.7	1.4	1.8	1.3	1.1	1.3	1.6	2.5	2.2	2.3	1.8	1.8	1.3	1.2
Female	0.3	0.5	0.3	0.6	0.8	0.7	0.7	0.7	0.9	1.0	1.0	1.2	1.1	1.0	0.9
College Plans:															
None or under 4 years	2.2	2.4	2.2	2.5	2.2	1.5	2.4	2.8	4.0	3.6	3.1	3.6	2.7	3.2	2.4
Complete 4 years	8.0	0.9	0.7	1.0	0.9	0.8	0.8	1.0	1.4	1.5	1.5	1.3	1.3	0.9	0.9
Region:															
Northeast	0.7	1.1	0.6	1.0	1.0	1.1	1.0	1.1	1.6	1.7	1.8	1.2	1.1	8.0	0.6
Midwest	1.1	1.2	1.0	1.0	1.1	0.8	1.0	1.2	1.6	1.8	1.7	1.6	1.7	1.2	1.1
South	1.2	1.1	1.0	1.6	1.1	0.9	0.9	1.4	1.9	1.8	1.9	1.9	1.6	1.3	1.3
West	0.7	0.9	0.7	1.0	1.0	0.8	1.1	0.9	1.4	1.3	0.9	1.2	1.2	1.0	1.0
Population Density:															
Large MSA	0.8	1.0	0.8	0.9	0.9	0.8	0.9	1.0	1.3	1.6	1.6	1.1	1.0	1.0	0.8
Other MSA	1.2	1.2	0.9	1.2	1.2	0.9	0.9	1.2	1.9	1.5	1.7	1.6	1.5	1.1	1.1
Non-MSA	1.0	0.9	0.9	1.5	0.9	0.9	1.2	1.4	1.7	2.0	1.6	2.1	1.8	1.3	1.3
Parental Education: b															
1.0-2.0 (Low)	1.8	1.2	1.2	1.6	1.3	0.9	1.4	1.7	2.2	2.5	2.0	1.8	1.3	1.5	2.1
2.5–3.0	1.1	1.2	0.8	1.6	1.3	0.7	0.9	1.1	1.9	2.1	1.6	1.7	1.9	1.4	1.0
3.5-4.0	1.0	1.0	1.1	1.3	0.8	0.9	1.2	1.4	1.6	1.3	1.9	1.9	1.6	1.0	1.1
4.5–5.0	0.7	0.9	0.8	0.8	0.8	1.2	0.9	1.1	1.4	1.6	1.5	1.0	1.3	1.2	1.1
5.5-6.0 (High)	1.0	1.3	0.6	0.9	1.5	0.9	1.2	1.1	2.0	1.6	1.7	1.6	1.0	0.7	0.7
Race/Ethnicity (2-year average): c															
White	_	1.1	1.0	1.0	1.1	0.9	0.9	1.1	1.5	1.9	1.8	1.7	1.6	1.3	1.0
African American	_	0.7	0.6	0.8	0.9	0.7	0.6	0.7	0.8	0.7	0.8	1.2	1.2	0.9	0.9
Hispanic	_	1.2	1.1	1.1	1.3	1.5	1.4	1.4	1.8	1.8	1.5	1.5	1.7	1.7	1.2

TABLE 157 (cont.)

STEROIDS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 8</u>

	Percentage who used in last 12 months													
														2017-2018
	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	change
Approximate weighted N =		16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300		
Total	0.9	0.8	0.9	8.0	0.5	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.0
Gender:														
Male	1.2	1.1	1.2	1.0	0.7	1.0	8.0	0.7	0.6	0.5	0.5	0.6	0.6	0.0
Female	0.6	0.4	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.5	0.5	0.6	0.7	0.0
College Plans:														
None or under 4 years	2.4	2.7	2.3	2.2	1.4	1.4	1.4	1.6	1.4	1.1	1.1	1.3	1.0	-0.2
Complete 4 years	0.7	0.6	0.8	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Region:														
Northeast	0.6	0.5	0.8	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.2	8.0	0.5	-0.3
Midwest	8.0	0.7	0.9	0.7	0.7	0.9	0.5	0.3	0.6	0.6	0.6	0.6	0.6	-0.1
South	1.1	1.0	1.1	0.7	0.5	8.0	0.8	8.0	0.6	0.6	0.6	0.4	0.7	+0.3
West	0.7	0.8	0.6	0.9	0.4	0.6	0.5	0.5	0.4	0.4	0.6	8.0	0.7	-0.1
Population Density:														
Large MSA	8.0	0.7	0.8	0.4	0.4	0.3	0.6	0.6	0.3	0.5	0.5	0.4	0.6	+0.2
Other MSA	8.0	0.8	0.9	0.9	0.7	8.0	0.6	0.6	0.6	0.4	0.4	0.7	0.7	0.0
Non-MSA	1.2	1.0	1.0	0.9	0.4	1.2	0.6	0.7	0.7	0.7	0.9	0.9	0.7	-0.1
Parental Education: b														
1.0-2.0 (Low)	1.0	1.7	1.7	2.1	0.7	1.0	0.6	0.6	8.0	8.0	0.8	8.0	0.6	-0.2
2.5-3.0	0.9	0.9	1.0	0.7	0.5	0.9	0.6	0.7	0.5	0.7	0.5	0.7	1.0	+0.3
3.5-4.0	1.0	0.8	1.0	0.9	0.5	0.9	0.4	0.6	0.7	0.3	0.5	0.5	0.7	+0.3
4.5–5.0	0.7	0.4	0.7	0.5	0.6	0.5	0.5	0.3	0.5	0.6	0.5	0.7	0.5	-0.2
5.5-6.0 (High)	1.1	0.8	0.8	0.6	0.5	0.8	0.9	0.8	0.6	0.5	0.6	0.6	0.4	-0.2
Race/Ethnicity (2-year average): c														
White	0.9	0.8	0.8	0.7	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.0
African American	0.8	0.8	0.7	0.7	0.7	0.5	0.7	0.8	0.7	0.6	0.5	0.6	0.6	0.0
Hispanic	0.9	0.7	0.7	0.9	0.8	0.7	0.4	0.5	0.6	0.5	0.6	0.6	0.7	+0.1

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .01. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. In 2006 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 158
STEROIDS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

	Percentage who used in last 12 months														
	<u>1991</u>	1992	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Approximate weighted N =		14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Total	1.1	1.1	1.0	1.1	1.2	1.2	1.2	1.2	1.7	2.2	2.1	2.2	1.7	1.5	1.3
Gender															
Male	1.9	1.9	1.7	1.9	2.0	1.7	1.8	1.9	2.8	3.6	3.3	3.2	2.3	2.3	1.8
Female	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.7	8.0	1.0	1.2	1.1	0.9	0.7
College Plans															
None or under 4 years	1.7	1.3	1.9	2.1	2.1	2.1	2.4	1.9	2.6	3.6	3.2	3.0	2.7	2.9	1.9
Complete 4 years	0.9	1.0	8.0	0.9	1.1	1.0	1.0	1.1	1.6	1.9	1.9	2.1	1.5	1.4	1.2
Region															
Northeast	1.2	0.9	1.0	1.0	1.1	1.0	0.9	1.4	2.0	1.8	1.9	2.0	1.9	1.4	1.5
Midwest	1.0	1.1	1.2	1.1	1.2	1.4	1.2	1.1	1.8	2.1	1.5	1.8	1.9	1.4	1.2
South	1.0	1.2	1.0	1.3	1.3	1.4	1.4	1.4	1.7	2.5	2.5	2.5	1.5	1.9	1.5
West	1.0	1.2	8.0	1.1	1.3	0.6	1.3	0.9	1.4	2.1	2.3	2.4	1.4	1.4	0.9
Population Density															
Large MSA	1.5	0.9	8.0	8.0	8.0	8.0	1.0	8.0	1.2	2.3	1.9	2.1	1.4	1.2	0.9
Other MSA	1.0	1.0	0.9	1.1	1.4	1.2	1.2	1.3	1.9	2.0	2.0	2.3	1.5	1.5	1.4
Non-MSA	8.0	1.4	1.4	1.5	1.4	1.5	1.5	1.5	2.0	2.5	2.4	2.1	2.6	2.1	1.5
Parental Education <sup>b</sup>															
1.0-2.0 (Low)	0.7	0.9	1.5	1.8	1.2	1.7	1.7	1.3	1.2	2.3	1.6	1.6	1.9	1.5	1.8
2.5–3.0	1.3	1.1	1.0	0.9	1.1	0.7	1.1	1.1	1.7	2.2	2.1	2.0	1.9	1.8	1.2
3.5–4.0	1.0	1.2	1.1	0.8	1.6	1.2	1.4	1.7	2.0	2.0	2.3	2.8	1.9	1.7	1.0
4.5–5.0	0.9	1.0	0.8	1.4	1.1	1.2	1.0	0.9	1.5	2.4	2.0	2.0	1.6	1.5	1.5
5.5–6.0 (High)	1.2	1.4	1.1	1.1	1.0	1.1	1.1	1.1	2.4	2.2	2.1	3.0	1.3	1.2	1.3
Race/Ethnicity (2-year average) c															
White	_	1.0	1.0	1.0	1.2	1.3	1.3	1.3	1.5	2.1	2.3	2.4	2.3	1.8	1.6
African American	_	0.7	0.8	8.0	0.7	0.7	0.5	0.5	0.7	1.2	1.6	1.2	0.8	0.7	0.9
Hispanic	_	1.2	1.4	1.3	0.9	1.1	1.2	1.2	1.5	1.8	2.1	2.1	1.8	1.6	1.3

TABLE 158 (cont.)

STEROIDS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 10</u>

					Percer	itage wh	o used ir	last 12	months					
														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	change
Approximate weighted N =	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	
Total	1.2	1.1	0.9	8.0	1.0	0.9	8.0	8.0	8.0	0.7	0.7	0.7	0.6	-0.1
Gender														
Male	1.9	1.7	1.4	1.2	1.3	1.4	1.3	1.3	1.1	1.0	0.9	0.8	0.6	-0.2
Female	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.6	+0.1
College Plans														
None or under 4 years	2.3	1.9	2.6	1.6	2.6	2.1	2.3	1.2	2.5	1.5	1.2	1.7	0.9	-0.8
Complete 4 years	1.1	0.9	0.7	0.7	0.8	0.8	0.7	8.0	0.6	0.7	0.7	0.6	0.6	0.0
Region														
Northeast	0.9	1.1	0.8	1.2	1.1	8.0	8.0	1.0	0.5	1.1	0.5	0.7	0.7	0.0
Midwest	1.2	1.2	1.0	0.7	0.7	8.0	0.7	8.0	0.7	0.7	0.9	0.8	0.7	-0.1
South	1.6	1.3	1.0	0.7	1.2	1.2	1.0	8.0	1.2	0.7	0.9	0.7	0.7	0.0
West	0.9	0.7	0.8	0.6	0.8	0.7	0.7	8.0	0.6	0.6	0.5	0.6	0.4	-0.2
Population Density														
Large MSA	1.0	0.8	0.7	0.9	0.9	0.6	0.9	0.9	8.0	0.7	0.4	0.6	0.7	0.0
Other MSA	1.3	1.1	1.0	0.7	0.9	1.0	8.0	0.9	0.6	0.7	0.8	0.7	0.6	-0.1
Non-MSA	1.4	1.3	1.1	0.7	1.1	1.1	0.7	8.0	1.2	1.0	1.1	8.0	0.7	-0.1
Parental Education <sup>b</sup>														
1.0-2.0 (Low)	1.4	1.0	1.5	1.0	1.5	0.5	1.1	1.0	0.6	0.4	0.7	1.2	0.4	-0.8
2.5–3.0	1.5	1.4	1.0	0.9	1.0	0.9	0.9	0.9	0.6	0.6	0.7	0.6	0.5	0.0
3.5–4.0	1.3	1.0	0.9	0.7	0.9	0.8	0.7	1.2	1.0	0.9	0.9	0.9	0.9	0.0
4.5–5.0	0.9	1.1	8.0	0.7	0.7	1.1	0.9	0.5	0.7	0.9	0.5	0.6	0.5	-0.1
5.5-6.0 (High)	1.4	0.9	1.0	0.9	1.2	1.0	0.7	0.7	8.0	0.5	1.0	0.4	0.6	+0.2
Race/Ethnicity (2-year average) c														
White	1.3	1.2	1.0	8.0	0.7	8.0	8.0	8.0	8.0	8.0	0.8	0.8	0.7	-0.2
African American	1.1	0.9	0.8	0.7	1.0	1.3	1.0	0.9	1.0	1.0	0.7	0.7	0.6	0.0
Hispanic	1.0	0.7	1.1	1.3	0.8	0.6	0.8	0.9	0.5	0.6	0.4	0.4	0.6	+0.2 s

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2006 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 159
STEROIDS: <sup>a</sup> Trends in <u>Annual</u> Prevalence of Use by Subgroups in <u>Grade 12</u>

							Pe	ercentag	e who us	sed in las	st 12 mo	nths						
	1975– 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =		16,700	15.200	15.000	15.800	16.300	15.400	15.400	14.300	15,400	15.200	13,600	12.800	12.800	12.900	14.600	14.600	14.700
Total	_	1.9	1.7	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	1.8	1.7	2.4	2.5	2.1	2.5	1.5
Gender																		
Male	_	2.8	2.6	2.4	2.1	2.5	2.1	2.4	2.2	2.5	2.8	3.1	2.5	3.8	3.8	3.2	3.3	2.6
Female	_	0.9	0.3	0.2	0.1	0.1	0.5	0.6	0.4	0.5	0.3	0.6	0.9	1.1	1.3	1.1	1.7	0.4
College Plans																		
None or under 4 years	_	2.3	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.3	2.1	3.6	2.0	4.6	4.1	2.6	2.8	2.1
Complete 4 years	_	1.6	1.3	1.2	8.0	0.9	1.1	1.2	1.1	1.2	1.4	1.3	1.6	1.8	2.0	2.0	2.4	1.2
Region																		
Northeast	_	2.0	1.3	1.2	0.6	1.5	1.5	1.6	1.3	2.1	0.9	1.3	1.9	4.5	2.1	3.0	3.8	1.6
Midwest	_	1.5	1.3	1.4	1.4	8.0	2.2	1.5	2.1	2.1	2.3	1.6	2.3	1.7	2.8	1.8	2.4	1.6
South	_	2.1	2.2	1.7	0.6	1.6	1.0	1.7	1.3	0.5	1.6	2.6	1.5	2.1	2.5	1.8	2.2	1.6
West	_	1.9	1.7	1.0	2.3	1.1	0.8	1.0	0.3	1.6	1.7	1.2	1.1	2.1	2.4	2.2	2.0	1.0
Population Density																		
Large MSA	_	1.6	1.3	1.1	1.0	0.7	1.1	1.4	1.3	0.8	2.1	1.3	1.7	1.9	2.0	2.1	2.6	1.4
Other MSA	_	2.3	1.5	1.4	1.4	0.9	1.5	1.3	1.3	1.7	1.5	2.0	2.0	2.9	3.0	2.1	2.9	1.4
Non-MSA	_	1.1	2.4	1.6	8.0	2.2	1.3	2.1	1.5	1.6	1.6	1.9	1.2	2.0	2.1	2.3	1.8	1.7
Parental Education <sup>b</sup>																		
1.0-2.0 (Low)	_	0.6	1.1	2.0	2.1	1.1	2.8	1.1	1.5	3.4	3.0	1.5	1.3	2.1	3.6	2.9	4.9	2.1
2.5-3.0	_	2.1	2.0	0.6	0.9	1.3	1.7	1.3	1.9	1.4	1.4	8.0	1.6	3.2	3.0	1.3	2.9	1.3
3.5-4.0	_	2.6	2.3	1.6	1.3	1.5	1.1	1.1	1.3	1.1	1.1	2.5	1.9	1.9	2.8	2.7	2.5	1.7
4.5-5.0	_	1.3	1.1	1.6	0.9	1.3	0.6	2.0	1.1	1.2	1.9	2.2	1.4	1.9	2.3	2.3	1.8	1.3
5.5-6.0 (High)	_	2.1	1.0	0.5	8.0	8.0	1.2	1.4	1.1	1.3	1.5	1.1	2.4	2.2	1.0	1.4	2.4	1.2
Race/Ethnicity (2-year average	) <sup>c</sup>																	
White	_	_	1.6	1.3	1.3	1.2	1.1	1.4	1.3	1.2	1.5	1.7	1.8	2.1	2.5	2.4	2.4	2.1
African American	_	_	1.8	1.2	0.5	1.1	1.8	1.2	1.4	1.5	0.9	0.7	1.0	1.2	1.0	1.1	1.3	1.6
Hispanic	_	_	2.3	3.3	1.8	0.9	1.7	1.3	0.6	1.6	2.4	2.9	2.4	2.1	2.2	1.8	2.4	2.0

# TABLE 159 (cont.) STEROIDS: <sup>a</sup> Trends in <u>Annual Prevalence of Use by Subgroups in Grade 12</u>

					Percer	ntage wh	o used i	n last 12	months					
														2017-2018
	2006	2007	2008	2009	2010	2011	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	####	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	1.8	1.4	1.5	1.5	1.5	1.2	1.3	1.5	1.5	1.7	1.0	1.1	1.1	+0.1
Gender														
Male	2.7	2.3	2.5	2.5	2.5	1.8	1.7	2.2	2.0	2.5	1.3	1.4	1.5	+0.1
Female	0.7	0.6	0.4	0.4	0.3	0.5	0.7	0.7	0.7	0.7	0.6	0.5	0.4	-0.1
College Plans														
None or under 4 years	2.7	2.1	3.1	2.9	3.3	1.6	1.4	2.7	1.8	1.8	2.1	2.3	2.2	-0.1
Complete 4 years	1.5	1.3	1.1	1.2	1.1	1.1	1.1	1.1	1.3	1.5	8.0	0.7	0.7	0.0
Region														
Northeast	2.0	1.6	2.2	1.3	1.7	1.2	1.6	1.0	2.1	1.1	0.9	8.0	0.6	-0.2
Midwest	1.5	1.3	1.7	1.4	1.6	0.6	0.9	1.6	0.9	1.6	1.1	0.9	1.4	+0.4
South	2.0	2.0	1.4	1.7	1.5	1.5	1.6	1.9	1.4	1.9	1.1	1.4	1.4	0.0
West	1.5	0.5	0.9	1.4	1.1	1.5	1.0	0.9	1.5	2.0	1.0	8.0	0.7	-0.1
Population Density														
Large MSA	1.6	1.0	0.9	1.3	1.2	1.0	1.4	1.1	8.0	1.8	0.7	0.6	1.4	+0.8 s
Other MSA	1.6	1.5	1.4	1.7	1.5	1.4	1.2	1.1	1.9	1.9	1.3	1.0	1.0	0.0
Non-MSA	2.2	1.9	2.4	1.1	1.6	1.2	1.0	2.8	1.1	1.2	0.9	1.8	0.9	-0.9
Parental Education <sup>b</sup>														
1.0-2.0 (Low)	2.8	3.0	2.1	1.7	1.6	2.2	1.5	3.3	1.9	1.1	1.5	1.4	1.6	+0.2
2.5-3.0	1.8	1.6	1.6	1.8	2.2	1.3	1.0	1.5	1.4	1.1	0.9	1.4	1.3	-0.2
3.5-4.0	1.7	1.1	1.3	1.6	1.6	1.5	1.1	8.0	1.1	2.1	1.1	0.7	0.7	0.0
4.5-5.0	1.3	1.1	1.4	1.3	0.7	0.6	1.0	1.7	1.2	1.9	0.7	1.0	1.3	+0.3
5.5-6.0 (High)	1.5	1.5	1.5	0.9	1.4	0.8	1.8	0.5	1.4	1.9	1.2	0.6	0.7	+0.1
Race/Ethnicity (2-year average)	) <sup>c</sup>													
White	1.6	1.5	1.5	1.5	1.5	1.3	1.2	1.3	1.1	1.3	1.4	0.9	0.8	0.0
African American	1.7	1.6	1.4	1.5	1.7	1.8	1.6	1.4	2.7	2.2	1.3	2.2	2.4	+0.2
Hispanic	2.3	2.3	1.3	1.0	1.3	1.4	1.0	1.1	1.4	1.3	1.0	0.7	1.1	+0.4

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on on one of six forms in 1989–1990; N is one sixth of N indicated in Table S3. Data based on two of six forms in 1991–2005; N is two sixths of N indicated in Table S3. Data based on three of six forms beginning in 2006; N is three sixths of N indicated in Table S3. In 2006 there were no changes in the two forms containing the original version of the question text. A slightly altered version of the question was added to a third form. An examination of the data did not show any effect from the wording change. In 2007 the forms containing the original version were changed in a like manner. In 2008 the question wording was changed slightly in two of the questionnaire forms. An examination of the data did not show any effect from the wording changes. In 2009 the remaining form was changed in a like manner.

<sup>&</sup>lt;sup>a</sup>Only drug use not under a doctor's orders is included here.

<sup>&</sup>lt;sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>°</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 160

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Daily Use for a Month or More by Subgroups in <u>Grade 12</u>

					Р	ercentag	e who us	sed daily	for month	n or more	e in lifetin	ne				
Approximate weighted N =	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> —	<u>1979</u> —	<u>1980</u>	<u>1981</u>	<u>1982</u> 17,700	1983 16,300	<u>1984</u> 15,900	<u>1985</u> 16,000	<u>1986</u> 15,200	<u>1987</u> 16,300	<u>1988</u> 16,300	<u>1989</u> 16,700	<u>1990</u> 15,200
Total	_	_	_	_	_	_	_	20.5	16.8	16.3	15.6	14.9	14.7	12.8	11.5	10.0
Gender:																
Male	_	_	_	_	_	_	_	20.1	18.1	17.2	17.7	16.6	16.2	14.8	12.7	10.6
Female	_	_	_	_	_	_	_	18.0	13.5	12.9	12.0	11.6	12.2	9.6	9.7	7.9
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	22.5	20.3	18.9	19.6	17.2	18.0	14.5	15.3	12.8
Complete 4 years	_	_	_	_	_	_	_	13.8	10.5	10.7	10.6	11.0	11.1	9.8	9.1	7.4
Region:																
Northeast	_	_	_	_	_	_	_	25.1	20.4	24.1	20.9	21.5	17.0	13.1	14.6	10.4
Midwest	_	_	_	_	_	_	_	21.1	15.9	12.8	16.3	11.3	12.7	10.3	13.4	10.8
South	_	_	_	_	_	_	_	15.7	12.7	14.0	8.9	11.3	11.9	10.9	8.1	8.7
West	_	_	_	_	_	_	_	20.8	21.4	17.6	18.5	18.3	19.7	19.0	12.3	11.0
Population Density:																
Large MSA	_	_	_	_	_	_	_	23.8	20.0	19.4	18.1	17.0	16.7	14.0	10.6	8.3
Other MSA	_	_	_	_	_	_	_	20.3	18.2	16.6	16.0	14.9	15.0	14.9	12.4	11.7
Non-MSA	_	_	_	_	_	_	_	17.9	12.6	13.2	12.8	13.2	12.2	7.6	10.4	8.2
Parental Education: a																
1.0-2.0 (Low)	_	_	_	_	_	_	_	20.9	15.5	15.4	15.0	17.2	11.2	11.9	8.4	9.3
2.5–3.0	_	_	_	_	_	_	_	20.1	15.5	16.8	15.3	13.3	15.6	10.0	10.4	10.4
3.5–4.0	_	_	_	_	_	_	_	20.1	14.7	15.9	15.2	14.5	14.2	12.8	14.0	8.0
4.5–5.0	_	_	_	_	_	_	_	16.8	17.0	10.8	12.8	12.4	14.2	14.5	8.5	10.3
5.5–6.0 (High) Race/Ethnicity (2-year average): <sup>b</sup>	_	_	_	_	_	_	_	12.8	15.3	14.8	11.8	14.6	11.4	10.0	13.5	7.5
White	_	_	_	_	_	_	_	_	18.2	16.2	15.8	15.0	15.1	14.6	13.0	11.4
African American	_	_	_	_	_	_	_	_	11.3	9.9	9.8	9.2	8.6	6.9	6.2	4.2
Hispanic	_	_	_	_	_	_	_	_	19.5	14.8	11.0	11.8	11.3	11.4	9.4	8.3

TABLE 160 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Daily Use for a Month or More by Subgroups in <u>Grade 12</u>

					Perce	ntage wh	o used c	daily for r	nonth or	more in I	ifetime				
Approximate weighted N =	<u>1991</u> 15,000	<u>1992</u> 15,800	1993 16,300	<u>1994</u> 15,400	<u>1995</u> 15,400	1996 14,300	<u>1997</u> 15,400	<u>1998</u> 15,200	<u>1999</u> 13,600	2000 12,800	2001 12,800	2002 12,900	2003 14,600	2004 14,600	2005 14,700
Total	9.0	8.4	9.6	11.3	12.1	15.7	18.8	18.0	17.9	17.0	18.0	15.5	16.4	17.8	14.5
Gender:															
Male	10.5	8.3	10.7	13.3	12.9	18.7	19.7	19.5	18.5	18.8	20.3	17.2	17.1	19.9	15.8
Female	6.4	7.5	7.2	8.5	7.9	10.7	15.2	13.9	14.4	13.7	13.8	11.7	12.5	12.3	11.1
College Plans:															
None or under 4 years	11.5	11.2	11.6	16.1	14.2	21.5	22.6	22.1	22.1	19.1	22.8	20.5	22.2	24.5	20.0
Complete 4 years	6.5	5.9	7.7	8.6	9.2	11.9	14.9	13.4	14.2	13.7	13.8	11.7	11.9	13.4	11.4
Region:															
Northeast	10.3	8.7	12.0	12.2	12.8	21.3	24.6	22.7	17.9	19.8	23.4	20.7	20.8	19.5	15.5
Midwest	8.4	8.0	9.3	11.0	13.6	14.6	16.5	16.1	14.3	13.8	18.4	16.3	15.0	17.9	16.6
South	7.4	5.9	8.3	11.8	11.2	12.7	14.9	15.6	19.1	14.7	12.7	14.6	15.5	18.6	15.8
West	11.3	13.4	10.4	10.2	10.6	17.0	23.0	20.6	20.4	21.9	21.2	11.7	15.4	14.3	8.9
Population Density:															
Large MSA	7.2	8.4	8.6	10.3	13.9	15.3	18.8	18.0	16.3	18.4	19.7	15.2	14.0	17.0	13.7
Other MSA	11.1	8.9	10.2	13.6	11.3	18.2	20.1	19.7	19.2	18.3	17.5	15.1	19.0	19.5	14.6
Non-MSA	7.1	7.6	9.6	8.4	11.2	11.6	16.2	14.4	17.1	13.0	17.1	16.8	14.8	15.5	15.3
Parental Education: a															
1.0-2.0 (Low)	9.6	12.4	7.2	10.3	10.0	14.1	16.1	18.0	13.9	20.9	16.7	13.7	16.4	17.2	11.1
2.5-3.0	7.1	8.3	10.8	8.8	11.2	16.3	20.2	16.5	15.6	16.6	16.7	17.7	15.0	17.5	18.0
3.5-4.0	9.3	8.6	9.8	12.6	11.5	15.1	14.9	17.6	18.0	16.0	19.4	13.3	14.1	18.4	12.9
4.5–5.0	8.2	4.9	8.0	10.2	9.4	13.2	18.1	14.7	18.7	12.7	15.2	16.0	14.6	16.1	11.1
5.5-6.0 (High)	7.9	6.5	6.4	9.6	10.1	14.3	14.1	16.0	9.1	17.5	9.8	6.9	10.6	11.4	11.6
Race/Ethnicity (2-year average): b															
White	9.6	8.7	9.4	10.8	11.0	13.0	16.8	17.7	16.7	16.2	17.1	16.7	16.2	17.1	16.9
African American	2.6	2.9	4.2	7.3	9.7	10.3	11.2	13.3	14.5	13.6	12.4	10.2	8.7	11.0	11.9
Hispanic	10.7	11.7	7.9	7.5	9.1	13.0	18.3	18.2	21.1	24.3	16.8	13.2	10.8	10.9	11.0

TABLE 160 (cont.)

MARIJUANA: Trends in <u>Lifetime</u> Prevalence of Daily Use for a Month or More by Subgroups in <u>Grade 12</u>

				Perce	ntage wh	o used d	aily for n	nonth or	more in I	ifetime				
Approximate weighted N =	<u>2006</u>	2007 14,500	2008 14.000	2009 13,700	2010 14,400	<u>2011</u> 14,100	2012 13,700	2013 12,600	<u>2014</u> 12.400	2015 12,900	2016 11.800	2017 12,600	2018 13,300	2017-2018 <u>change</u>
Total	16.6	15.7	15.06	14.89	15.5	17.37	18.2	15.8	13.7	12,900	14.3	13.9	12.3	-1.6
Gender:	10.0	15.7	15.00	14.03	10.0	17.37	10.2	13.0	13.7	12.4	14.3	13.9	12.3	-1.0
Male	17.0	17.5	15.31	16.76	17.38	20.39	21.6	18.4	15.5	13.1	17.2	15.7	12.3	-3.4
Female	13.3	12.6	12.75	10.70	11.54	11.99	11.9	11.7	10.9	9.8	10.3	10.5	9.3	-1.2
College Plans:	13.3	12.0	12.75	10.7	11.04	11.33	11.3	11.7	10.9	3.0	10.5	10.5	9.5	-1.2
None or under 4 years	24.8	21.8	23.37	18.6	21.88	26.41	28.0	24.3	22.9	19.0	19.2	22.5	18.5	-3.9
Complete 4 years	12.2	13.3	11.01	11.79	12.49	13.9	14.1	12.5	10.3	9.7	11.5	10.4	8.1	-2.3
Region:	12.2	10.0	11.01	11.73	12.43	10.5	14.1	12.5	10.5	3.1	11.5	10.4	0.1	-2.5
Northeast	17.7	19.0	19.69	14.2	16.01	18.61	17.6	17.5	15.9	13.6	12.3	13.6	9.7	-3.9
Midwest	16.3	17.1	13.83	16.99	15.42	15.87	15.7	14.5	11.3	10.8	11.1	13.5	14.6	+1.1
South	17.1	14.2	13.34	15.89	14.77	17.47	16.7	14.2	12.8	13.8	15.5	13.6	11.0	-2.6
West	15.2	13.9	15.55	11.18	16.36	17.82	23.2	18.2	15.6	10.4	16.6	14.9	14.0	-0.9
Population Density:	10.2	10.0	10.00	11.10	10.00	11.02	20.2	10.2	10.0	10.1	10.0	11.0	11.0	0.0
Large MSA	18.7	14.2	18.3	13.79	16.6	18.63	20.2	16.8	13.8	12.5	17.3	14.1	12.2	-1.9
Other MSA	14.2	16.2	13.51	15.42	16.45	17.11	18.2	16.3	14.0	11.6	10.9	14.0	11.5	-2.5
Non-MSA	18.2	16.8	14.76	15.1	11.48	16.12	14.9	13.3	13.0	14.2	17.8	13.2	14.3	+1.1
Parental Education: <sup>a</sup>	10.2	10.0	11.10	10.1	11.10	10.12	11.0	10.0	10.0	11.2	17.0	10.2	11.0	
1.0–2.0 (Low)	26.5	15.8	17.7	13.8	13.6	16.4	20.6	21.4	12.5	12.9	13.7	17.4	10.9	-6.5
2.5–3.0	15.4	18.0	18.5	16.2	14.5	15.2	18.3	18.0	17.2	15.2	13.3	15.0	10.3	-4.7
3.5–4.0	16.5	15.7	12.3	13.2	17.2	16.5	16.5	16.9	13.6	11.9	16.2	13.3	11.7	-1.6
4.5–5.0	12.6	13.3	12.1	11.5	10.8	16.5	16.4	12.7	11.5	10.2	12.3	9.1	9.8	+0.7
5.5–6.0 (High)	9.9	12.2	9.2	11.0	10.7	15.6	13.9	8.1	5.4	6.6	9.3	7.5	8.4	+0.8
Race/Ethnicity (2-year average): b														
White	16.3	15.9	15.0	14.3	14.3	15.3	16.8	16.2	13.7	11.2	11.5	12.5	11.6	-0.9
African American	12.7	13.9	10.4	10.8	14.7	14.6	14.5	13.7	14.0	14.1	14.3	14.9	12.8	-2.1
Hispanic	11.6	13.8	13.9	13.0	12.8	15.4	19.0	18.5	15.8	13.6	12.8	14.7	12.2	-2.5

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. Data based on one of six forms; N is one sixth of N indicated in Table S3. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 161

NONPRESCRIPTION DIET PILLS: Trends in <u>Annual</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

-						Pe	rcentage	e who use	ed in last	12 mont	hs					
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	1982	1983	1984	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Approximate weighted N =	_	_	_	_	_	_	_	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	_	_	_	_	_	_	20.5	20.5	18.8	16.9	15.3	13.9	12.2	10.9	10.4
Gender:																
Male	_	_	_	_	_	_	_	10.7	10.6	9.2	9.0	6.9	6.4	4.9	4.3	4.3
Female	_	_	_	_	_	_	_	29.6	30.0	27.5	24.4	23.2	21.1	18.8	17.2	16.7
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	23.3	21.4	18.2	20.7	16.1	14.9	13.1	11.9	13.2
Complete 4 years	_	_	_	_	_	_	_	17.5	19.0	18.8	14.7	15.0	13.3	11.7	10.9	9.7
Region:																
Northeast	_	_	_	_	_	_	_	19.1	18.5	18.4	16.5	14.9	14.3	10.5	10.4	11.5
Midwest	_	_	_	_	_	_	_	24.6	23.3	20.2	19.2	16.6	15.0	13.7	15.0	11.1
South	_	_	_	_	_	_	_	18.2	19.2	19.6	14.9	13.9	13.1	12.0	9.3	10.0
West	_	_	_	_	_	_	_	18.9	21.1	15.8	17.3	16.4	13.5	12.1	8.7	8.9
Population Density:																
Large MSA	_	_	_	_	_	_	_	19.7	18.7	17.3	17.1	15.0	13.0	12.1	10.3	7.4
Other MSA	_	_	_	_	_	_	_	20.0	22.8	18.6	17.1	15.6	13.7	12.4	10.9	11.2
Non-MSA	_	_	_	_	_	_	_	21.7	19.2	20.5	16.5	15.2	15.2	11.9	11.7	11.7
Parental Education: a																
1.0-2.0 (Low)	_	_	_	_	_	_	_	19.5	15.9	19.2	14.6	12.0	13.5	13.4	9.5	5.1
2.5–3.0	_	_	_	_	_	_	_	21.6	21.3	18.2	17.8	15.6	13.1	12.0	9.9	12.3
3.5–4.0	_	_	_	_	_	_	_	20.6	20.2	20.6	18.0	16.6	14.5	11.5	11.8	9.2
4.5–5.0	_	_	_	_	_	_	_	19.3	22.4	17.4	16.8	15.0	15.9	12.0	10.4	12.0
5.5-6.0 (High)	_	_	_	_	_	_	_	21.0	22.3	19.1	17.1	15.7	11.6	13.6	13.4	12.2
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	23.2	22.2	20.4	18.4	16.3	14.7	13.4	12.5
African American	_	_	_	_	_	_	_	_	6.6	8.1	6.4	5.5	7.5	6.9	4.3	2.9
Hispanic	_	_	_	_	_	_	_	_	11.6	12.6	14.8	10.8	7.8	7.9	9.6	9.8

TABLE 161 (cont.)

NONPRESCRIPTION DIET PILLS: Trends in <u>Annual</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

						Percer	itage who	o used in	last 12 r	nonths					
Ammanimata unialitad N	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>
Approximate weighted N =		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Total	8.8	8.4	8.0	9.3	9.8	9.3	9.8	9.6	10.2	11.1	11.8	15.1	13.0	10.7	10.0
Gender:		4.0		0.5	0.5		4.0	4.0	4.0	4.0				0.5	
Male	3.0	4.3	3.2	2.5	3.5	3.7	4.9	4.3	4.0	4.9	6.2	8.1	6.9	6.5	6.0
Female	14.2	12.2	12.3	15.0	15.1	14.1	14.6	15.4	15.7	17.2	15.6	20.0	17.5	14.1	13.2
College Plans:															
None or under 4 years	8.9	10.5	9.7	10.8	11.5	10.8	12.0	10.7	9.1	10.0	9.4	17.8	13.9	10.4	11.5
Complete 4 years	8.6	8.0	7.3	9.3	9.3	8.6	9.2	10.1	10.4	11.5	11.6	13.8	12.6	10.5	9.3
Region:															
Northeast	5.7	6.3	7.6	8.6	8.2	10.1	8.1	8.6	8.6	8.0	12.8	16.7	11.6	11.9	9.1
Midwest	10.7	9.3	8.4	11.8	11.8	9.5	10.2	10.4	10.4	12.6	15.5	14.4	14.4	9.1	10.0
South	9.0	7.7	9.2	8.9	10.8	9.4	11.5	10.1	11.2	12.9	9.9	16.7	13.6	10.5	10.4
West	8.8	10.3	5.4	7.4	6.3	7.9	7.8	8.6	9.3	9.3	8.6	12.4	11.7	12.2	10.1
Population Density:															
Large MSA	7.7	7.4	7.3	8.5	10.7	8.5	9.4	9.5	9.0	8.3	12.3	13.9	12.5	9.8	7.9
Other MSA	9.2	8.4	6.8	9.9	8.9	9.3	8.7	9.1	9.5	11.5	11.5	13.6	10.8	11.5	10.7
Non-MSA	9.1	9.2	10.5	9.1	10.1	10.0	12.3	11.0	12.6	13.6	11.7	19.8	17.7	10.3	11.1
Parental Education: a															
1.0-2.0 (Low)	9.4	10.6	6.9	11.0	8.9	8.3	14.4	11.8	9.9	9.8	5.6	12.7	15.8	7.0	10.5
2.5–3.0	8.6	8.9	8.9	11.0	10.9	8.5	10.5	8.9	11.1	13.1	15.0	17.7	13.8	14.1	11.1
3.5-4.0	8.2	7.9	7.8	10.6	11.5	9.7	8.8	9.9	10.5	11.6	14.1	15.6	11.1	10.7	10.2
4.5–5.0	9.3	6.6	8.0	8.5	7.5	8.8	10.7	11.6	11.2	12.7	9.0	14.8	11.5	9.0	8.9
5.5-6.0 (High)	8.5	8.2	6.2	5.3	9.2	8.4	9.4	9.6	7.4	7.4	7.9	8.5	13.4	10.1	7.5
Race/Ethnicity (2-year average): b															
White	11.0	9.8	9.2	9.7	10.9	10.9	10.8	11.2	11.2	11.8	12.9	14.8	15.4	13.1	11.3
African American	3.5	3.0	4.5	6.1	5.3	4.3	5.3	4.9	4.2	5.5	6.5	5.5	4.6	4.8	4.5
Hispanic	5.6	4.6	7.1	7.1	7.5	7.0	8.2	9.3	9.8	10.0	9.1	13.2	12.7	7.9	7.5

TABLE 161 (cont.)

NONPRESCRIPTION DIET PILLS: Trends in <u>Annual</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

					Percer	tage wh	o used in	last 12 r	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	onango
Total	9.4	6.7	7.2	6.1	4.3	4.9	5.5	5.3	6.4	5.1	4.5	4.0	3.5	-0.4
Gender:														
Male	5.7	3.4	4.2	3.0	2.4	3.0	3.7	2.6	3.7	1.6	1.6	2.7	2.0	-0.6
Female	12.5	9.2	9.9	9.3	6.0	6.1	7.0	7.3	8.6	8.3	7.1	4.5	4.5	+0.1
College Plans:														
None or under 4 years	12.1	4.4	10.2	9.4	4.3	6.1	5.2	5.2	12.0	4.8	4.7	3.4	3.8	+0.4
Complete 4 years	8.6	7.1	6.8	5.6	4.5	4.4	5.5	4.8	5.0	5.1	4.6	3.5	3.6	+0.1
Region:														
Northeast	12.0	7.2	6.3	4.6	3.5	3.2	4.8	5.7	8.1	5.0	4.6	3.6	3.8	+0.2
Midwest	9.9	7.4	8.0	6.0	5.4	5.8	4.3	5.8	6.4	6.3	4.4	3.6	3.9	+0.3
South	9.2	6.9	6.5	6.8	3.8	4.7	7.4	6.0	6.5	4.5	4.9	5.0	3.7	-1.4
West	6.5	5.3	8.0	6.6	4.7	5.4	4.8	3.3	4.6	5.3	3.9	2.8	2.8	-0.1
Population Density:														
Large MSA	8.0	4.8	6.8	5.2	3.9	4.2	6.1	5.7	4.4	4.6	3.2	3.3	2.8	-0.5
Other MSA	9.9	7.4	7.0	5.8	5.0	4.3	5.6	4.7	7.2	5.0	5.2	3.9	3.5	-0.4
Non-MSA	10.3	8.3	7.9	8.0	3.1	7.3	4.6	6.1	7.1	6.3	4.9	5.2	4.9	-0.3
Parental Education: a														
1.0-2.0 (Low)	6.9	5.8	7.4	5.9	4.4	5.5	8.9	5.9	6.1	4.4	4.2	2.4	2.1	-0.2
2.5–3.0	13.3	8.8	7.8	8.2	4.6	4.7	4.5	6.9	6.1	4.9	5.0	5.6	3.6	-2.0
3.5–4.0	9.0	6.0	7.5	5.9	5.0	6.0	4.9	5.4	7.9	8.0	5.1	3.1	4.8	+1.7
4.5–5.0	8.6	5.0	8.7	4.9	3.7	4.7	5.7	3.1	6.3	4.4	4.7	4.1	3.7	-0.4
5.5-6.0 (High)	6.4	7.4	3.0	6.5	4.9	2.7	3.7	3.4	4.2	3.0	3.0	3.3	4.0	+0.7
Race/Ethnicity (2-year average): b														
White	10.7	9.3	8.1	7.2	4.8	4.3	4.9	4.8	5.6	6.0	5.7	5.0	4.4	-0.7
African American	4.2	3.2	2.5	3.4	4.4	3.0	3.3	3.6	4.3	3.6	1.8	2.4	3.0	+0.6
Hispanic	7.7	4.9	5.2	7.2	6.4	5.5	5.6	5.6	5.1	5.0	4.4	2.6	1.9	-0.8

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. Data based on one of six forms; N is one sixth of N indicated in Table S3. See appendix B for definition of variables in table.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 162
NONPRESCRIPTION STAY-AWAKE PILLS: Trends in <u>Annual</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

						Pe	ercentage	e who use	ed in last	12 mont	hs					
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Approximate weighted N =	_	_	_	_	_	_	_	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Total	_	_	_	_	_	_	_	11.8	12.3	13.9	18.2	22.3	25.2	26.4	23.0	23.4
Gender:																
Male	_	_	_	_	_	_	_	12.8	13.8	15.4	19.7	22.3	25.5	27.6	24.8	22.3
Female	_	_	_	_	_	_	_	10.0	10.5	12.5	17.0	22.2	25.0	25.2	21.7	24.5
College Plans:																
None or under 4 years	_	_	_	_	_	_	_	11.4	10.8	12.5	15.5	18.1	23.1	23.3	21.8	22.9
Complete 4 years	_	_	_	_	_	_	_	10.5	12.6	14.0	20.4	24.9	26.5	27.5	24.1	24.1
Region:																
Northeast	_	_	_	_	_	_	_	9.6	9.5	11.9	18.2	20.4	26.4	23.8	18.4	22.0
Midwest	_	_	_	_	_	_	_	15.1	16.8	16.3	18.4	24.5	26.8	27.5	29.1	28.4
South	_	_	_	_	_	_	_	9.6	10.7	12.0	13.3	19.8	20.9	25.6	20.4	20.6
West	_	_	_	_	_	_	_	13.5	11.5	16.0	25.6	25.5	28.9	28.9	24.0	22.9
Population Density:																
Large MSA	_	_	_	_	_	_	_	11.5	11.1	12.2	17.7	19.0	25.6	23.2	20.9	19.0
Other MSA	_	_	_	_	_	_	_	12.4	14.5	14.0	19.1	24.1	24.1	27.7	22.9	25.1
Non-MSA	_	_	_	_	_	_	_	11.3	10.5	15.4	17.4	22.1	27.0	27.4	25.2	24.5
Parental Education: <sup>a</sup>																
1.0-2.0 (Low)	_	_	_	_	_	_	_	8.8	8.2	8.3	10.9	12.0	15.0	17.1	18.1	15.3
2.5–3.0	_	_	_	_	_	_	_	10.6	10.1	13.9	15.5	19.5	22.8	22.5	21.6	23.2
3.5-4.0	_	_	_	_	_	_	_	12.6	13.5	13.5	21.3	26.5	30.0	28.4	26.0	25.6
4.5–5.0	_	_	_	_	_	_	_	13.2	15.3	16.1	24.0	23.7	29.9	30.3	24.0	28.0
5.5–6.0 (High)	_	_	_	_	_	_	_	13.0	16.7	18.0	20.2	28.7	24.9	32.3	25.1	22.3
Race/Ethnicity (2-year average): b																
White	_	_	_	_	_	_	_	_	13.6	15.0	18.7	23.7	27.7	30.4	29.8	27.7
African American	_	_	_	_	_	_	_	_	2.0	3.0	3.6	4.4	5.5	6.2	6.0	6.4
Hispanic	_	_	_	_	_	_	_	_	5.7	8.3	8.4	9.7	13.8	15.6	16.5	14 1

TABLE 162 (cont.)

NONPRESCRIPTION STAY-AWAKE PILLS: Trends in <u>Annual Prevalence of Legal Use by Subgroups in Grade 12</u>

						Percer	ntage wh	o used ir	last 12 r	months					
	<u>1991</u>	1992	1993	1994	<u>1995</u>	<u>1996</u>	<u>1997</u>	1998	1999	2000	2001	2002	2003	2004	2005
Approximate weighted N =		15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	
Total	22.2	20.4	19.2	20.7	20.3	19.0	19.7	19.0	15.7	15.0	17.3	14.9	12.5	11.8	10.4
Gender:	00.0	00.0	40.7	00.0	40.7	40.0	47.4	40.5	44.5	440	47.0	40.0	0.0		0.4
Male	22.3	20.9	19.7	20.3	19.7	18.2	17.4	19.5	14.5	14.0	17.8	13.9	9.3	11.1	9.4
Female	22.0	20.2	17.6	20.4	20.1	18.7	21.0	18.0	15.9	15.9	16.5	14.6	14.3	12.3	10.3
College Plans:															
None or under 4 years	21.0	20.5	18.6	20.1	21.1	18.2	21.8	18.5	14.3	15.5	18.9	16.1	14.3	13.0	11.2
Complete 4 years	22.3	21.0	18.7	20.6	19.7	18.3	19.1	18.4	15.1	14.7	16.5	14.0	11.9	11.4	9.3
Region:															
Northeast	18.3	18.2	20.2	21.2	18.4	22.5	19.1	17.6	16.0	10.2	14.7	13.9	10.9	14.0	8.0
Midwest	31.8	25.7	22.0	26.2	24.2	19.8	23.8	22.0	17.3	19.3	24.4	18.9	12.9	12.3	13.4
South	16.1	17.6	18.7	20.2	18.8	17.5	20.1	18.8	15.6	13.8	15.4	13.5	11.6	9.7	11.0
West	23.4	20.0	14.9	13.7	19.1	16.5	13.3	16.8	13.3	16.3	12.4	13.2	14.9	12.5	8.0
Population Density:															
Large MSA	16.7	15.2	16.7	18.4	18.9	14.4	15.5	15.3	9.6	11.0	15.7	11.9	9.2	8.3	7.4
Other MSA	25.3	21.2	19.8	21.1	19.3	20.2	18.4	21.1	18.4	15.2	14.3	14.7	12.6	13.6	11.7
Non-MSA	21.7	23.4	19.9	22.3	23.6	20.7	26.8	18.9	17.3	19.3	24.3	19.3	16.5	12.2	11.4
Parental Education: a															
1.0-2.0 (Low)	14.9	16.2	11.0	16.6	13.2	11.5	18.2	11.7	7.9	7.3	15.3	8.9	10.3	5.9	4.2
2.5–3.0	20.2	22.8	19.0	18.1	18.1	19.0	21.0	16.5	13.4	15.1	17.1	13.4	12.0	13.9	9.7
3.5-4.0	23.9	22.4	18.6	21.6	24.3	17.4	17.6	19.9	18.3	17.0	20.3	16.5	11.4	13.5	12.8
4.5–5.0	25.1	20.0	21.1	24.4	20.4	23.2	20.2	20.3	15.6	16.7	16.2	14.9	12.7	11.3	9.7
5.5-6.0 (High)	25.8	17.8	20.2	18.4	17.3	17.4	19.3	22.6	14.9	13.4	13.6	15.7	14.5	11.4	8.3
Race/Ethnicity (2-year average): b															
White	27.4	25.8	24.0	23.7	23.9	23.3	23.1	23.2	20.7	18.2	19.9	19.5	16.0	14.2	12.8
African American	5.1	3.5	3.5	3.6	4.8	4.4	5.3	6.2	3.6	3.0	4.2	3.2	2.2	1.9	2.3
Hispanic	11.6	11.9	13.3	14.2	12.3	9.5	9.6	10.1	12.3	11.8	10.6	12.3	9.4	5.6	5.7

TABLE 162 (cont.)

NONPRESCRIPTION STAY-AWAKE PILLS: Trends in <u>Annual Prevalence of Legal Use by Subgroups in Grade 12</u>

					Percer	itage wh	o used in	last 12 r	months					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2017-2018 <u>change</u>
Approximate weighted N =		14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	change
Total	10.0	7.6	6.3	4.8	3.2	3.9	3.8	3.2	3.5	2.7	2.5	2.5	2.4	0.0
Gender:														
Male	10.2	7.8	5.2	5.9	3.2	2.8	3.9	2.9	2.8	2.1	2.3	2.6	1.9	-0.7
Female	9.4	7.1	7.0	3.5	3.1	4.6	3.8	3.4	3.6	2.7	2.5	1.7	2.7	+1.0
College Plans:														
None or under 4 years	9.1	9.5	9.5	3.9	3.0	5.1	4.4	3.0	4.4	3.1	1.1	2.1	5.0	+2.8
Complete 4 years	9.8	7.1	5.3	4.7	3.3	3.6	3.5	2.9	3.3	2.4	2.8	2.0	1.4	-0.7
Region:														
Northeast	8.3	5.7	6.7	5.6	3.0	2.7	3.0	4.0	2.6	2.9	1.9	1.5	1.8	+0.3
Midwest	14.1	10.9	6.6	6.1	3.1	4.2	3.1	3.1	4.2	4.6	2.8	1.7	2.9	+1.2
South	9.7	7.4	5.9	4.6	3.3	2.8	4.2	2.7	3.9	2.3	2.0	3.7	1.9	-1.8
West	7.0	6.3	6.2	3.0	3.2	6.2	4.5	3.4	2.8	1.5	3.3	1.8	3.2	+1.4
Population Density:														
Large MSA	7.7	5.3	7.2	4.9	2.8	3.9	2.5	2.6	2.0	2.0	1.2	1.8	1.5	-0.2
Other MSA	10.2	8.9	5.0	4.4	3.8	3.8	4.1	3.3	3.9	2.8	3.0	2.7	2.3	-0.3
Non-MSA	12.7	8.3	8.1	5.9	2.3	4.1	5.1	3.7	4.6	3.5	3.1	3.1	4.2	+1.1
Parental Education: a														
1.0-2.0 (Low)	6.1	3.7	6.0	3.3	1.8	3.5	6.5	2.8	3.8	3.6	1.4	0.7	1.9	+1.2
2.5–3.0	9.0	9.5	6.7	4.7	1.6	4.3	4.7	3.1	2.0	2.2	2.0	3.9	3.0	-0.9
3.5-4.0	11.4	7.6	7.4	3.7	3.9	5.1	3.3	4.8	3.2	2.4	3.0	1.8	3.5	+1.7
4.5–5.0	10.0	6.2	4.9	4.5	3.3	3.1	3.3	2.0	3.5	2.8	3.0	2.6	0.9	-1.7 s
5.5–6.0 (High)	8.9	9.7	5.4	5.7	5.5	2.9	2.4	2.3	6.2	1.7	1.4	1.5	1.9	+0.4
Race/Ethnicity (2-year average): b														
White	11.6	10.6	8.4	6.3	4.4	3.8	4.0	3.6	3.3	3.3	3.3	2.5	2.2	-0.3
African American	2.6	1.2	1.2	3.0	3.3	2.0	2.2	2.3	2.1	1.8	1.2	1.1	1.1	-0.1
Hispanic	6.9	5.2	4.4	4.4	2.7	2.7	4.5	4.0	3.3	2.5	1.4	1.3	1.8	+0.5

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, ss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. Data based on one of six forms; N is one sixth of N indicated in Table S3. See appendix B for definition of variables in table.

## ${\bf Caution:}\ \ {\bf Limited\ sample\ sizes\ (see\ Notes\ above)}.\ \ {\bf Use\ caution\ in\ interpreting\ subgroup\ trends}.$

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 163
STIMULANT-TYPE ADHD DRUGS:
Trends in <u>Lifetime</u> Prevalence of Legal Use by Subgroups in <u>Grade 8</u>

	Percentage who used in lifetime														2017-							
	1991-															2018						
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>						
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300							
Total	_	8.3	9.3	8.3	8.1	7.8	8.2	7.6	7.7	7.1	7.2	7.1	7.5	6.6	7.1	+0.5						
Gender:																						
Male	_	9.3	11.2	9.4	9.9	9.2	9.3	8.6	9.1	8.8	7.9	8.3	8.9	7.6	8.6	+1.0						
Female	_	7.2	7.4	7.3	6.5	6.8	7.1	6.4	6.4	5.4	6.7	6.0	6.0	5.2	6.1	+0.9						
College Plans:																						
None or under 4 years	_	14.4	16.6	10.8	10.8	7.7	11.1	11.3	10.3	12.4	12.2	9.6	13.5	8.6	11.1	+2.5						
Complete 4 years	_	7.6	8.6	8.0	7.8	7.9	7.9	7.2	7.5	6.7	6.9	6.8	7.0	6.4	6.6	+0.3						
Region:																						
Northeast	_	7.8	7.9	7.2	9.0	8.5	6.3	6.0	5.6	7.1	7.2	5.7	5.6	5.8	8.1	+2.3						
Midwest	_	8.5	8.6	8.8	6.7	7.0	8.9	8.2	7.6	6.7	7.1	7.5	8.7	7.7	7.0	-0.7						
South	_	9.3	10.2	9.3	9.9	9.5	8.9	7.5	9.4	8.8	7.7	8.6	9.4	7.7	9.3	+1.6						
West	_	6.7	9.7	6.8	6.6	5.6	7.4	8.4	6.0	4.6	6.7	4.9	4.2	4.5	3.2	-1.3						
Population Density:																						
Large MSA	_	7.2	7.6	7.1	7.2	6.5	7.2	7.5	6.4	6.1	6.4	6.3	6.2	6.9	6.3	-0.6						
Other MSA	_	10.0	10.3	9.0	9.32	8.2	8.9	7.7	8.1	7.1	8.2	7.4	8.3	6.5	8.8	+2.3						
Non-MSA	_	6.9	10.0	8.5	7.0	8.6	7.9	7.6	8.7	8.4	6.4	7.4	7.5	6.7	4.7	-1.9						
Parental Education: a																						
1.0-2.0 (Low)	_	12.1	12.0	9.0	11.2	11.0	7.2	8.6	7.7	4.2	4.9	7.4	7.2	4.3	7.8	+3.5						
2.5–3.0	_	7.9	10.6	9.1	7.8	7.5	8.9	8.0	8.8	6.0	7.2	7.6	8.5	6.4	5.9	-0.5						
3.5–4.0	_	9.7	7.9	8.7	6.8	8.0	7.3	8.4	7.4	8.3	7.4	7.4	7.0	6.2	6.9	+0.6						
4.5–5.0	_	6.9	9.0	7.5	8.6	7.5	8.3	7.1	7.8	7.8	7.6	7.0	7.4	6.9	8.4	+1.5						
5.5-6.0 (High)	_	8.2	8.5	8.8	9.7	8.1	9.2	6.9	6.2	6.7	6.6	6.7	6.4	8.2	7.9	-0.3						
Race/Ethnicity (2-year average): b																						
White	_	_	9.3	9.5	9.1	9.0	9.0	8.3	8.1	8.3	8.3	8.2	8.5	8.4	8.4	0.0						
African American	_	_	6.4	5.8	6.7	7.2	7.0	6.4	6.1	6.6	6.0	5.7	6.1	6.9	7.2	+0.3						
Hispanic	_	_	7.5	7.4	6.6	6.1	5.8	7.1	6.4	4.1	4.9	5.5	5.2	4.2	3.9	-0.3						

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 164
STIMULANT-TYPE ADHD DRUGS:
Trends in <u>Lifetime</u> Prevalence of Legal Use by Subgroups in <u>Grade 10</u>

						Pe	rcentage	who use	d in lifetii	me						2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	8.7	8.5	8.4	7.8	8.2	8.6	7.2	8.0	8.3	6.8	8.8	7.1	6.5	8.2	+1.6 s
Gender:																
Male	_	10.4	9.2	9.6	9.3	9.1	10.0	8.1	8.8	10.9	8.3	9.9	7.4	7.4	9.4	+2.0
Female	_	6.9	7.7	7.4	6.4	7.3	7.2	6.4	7.2	5.7	5.3	7.7	6.8	5.6	6.9	+1.3
College Plans:																
None or under 4 years	_	12.6	14.7	10.6	13.3	14.4	12.8	10.2	11.7	11.7	12.5	15.0	12.4	9.6	11.7	+2.0
Complete 4 years	_	8.2	7.6	8.1	7.2	7.6	8.2	6.9	7.6	8.0	6.1	8.2	6.6	6.2	7.5	+1.3
Region:																
Northeast	_	9.1	6.4	7.0	6.8	7.5	7.4	6.1	8.0	9.2	6.2	8.9	6.5	5.6	5.7	+0.1
Midwest	_	8.0	7.9	8.6	8.9	9.9	10.3	9.0	6.7	9.1	7.8	8.5	6.3	5.4	11.2	+5.9 sss
South	_	10.2	10.8	9.3	8.7	9.7	9.9	8.8	10.5	9.2	8.6	10.3	9.0	8.0	8.2	+0.2
West	_	6.8	7.6	8.0	6.4	5.2	5.8	3.6	6.0	6.0	3.5	6.6	5.6	6.2	6.6	+0.4
Population Density:																
Large MSA	_	7.5	7.5	6.8	6.7	8.5	8.1	6.4	6.9	8.2	5.8	8.6	6.1	6.1	7.1	+1.0
Other MSA	_	9.4	9.2	9.2	7.3	8.3	8.7	7.3	8.7	8.2	6.9	9.0	7.0	6.9	8.4	+1.6
Non-MSA	_	8.6	8.5	9.0	10.5	7.7	9.3	8.1	8.1	8.8	8.1	8.8	9.2	6.4	9.0	+2.6
Parental Education: a																
1.0-2.0 (Low)	_	6.6	8.7	8.0	5.8	7.3	9.0	5.4	7.2	7.8	4.0	7.4	5.5	6.0	7.4	+1.4
2.5–3.0	_	8.6	9.0	8.8	8.2	7.9	10.6	8.3	9.6	8.5	5.2	8.0	7.1	6.8	7.5	+0.7
3.5-4.0	_	8.2	9.8	7.7	8.3	7.6	8.4	7.5	6.9	9.3	7.0	10.0	6.4	6.3	7.8	+1.6
4.5–5.0	_	8.7	7.4	8.8	7.6	8.5	7.9	7.0	8.4	8.5	6.8	7.6	6.8	7.2	9.7	+2.4
5.5-6.0 (High)	_	10.0	8.0	8.8	7.9	10.3	8.8	6.0	8.4	8.9	8.6	10.4	8.9	6.4	8.6	+2.2
Race/Ethnicity (2-year average): b																
White	_	_	9.8	9.4	9.2	8.9	9.4	9.1	8.7	9.4	9.0	9.4	9.7	8.5	9.3	+0.8
African American	_	_	5.2	6.7	6.0	4.8	6.1	6.8	5.7	5.9	5.6	6.3	6.7	5.1	4.1	-1.0
Hispanic			5.6	5.4	4.8	5.3	5.9	5.1	5.9	5.0	3.7	4.5	4.5	4.6	5.5	+0.8

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 165 STIMULANT-TYPE ADHD DRUGS:

						Pe	rcentage	who use	d in lifetii	me						2017-
	1991-															2018
	<u>2004</u>	2005°	2006°	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	8.5	7.8	7.6	8.6	8.2	8.3	8.4	9.0	9.6	9.1	9.9	8.4	8.6	8.6	+0.0
Gender:																
Male	_	12.0	10.2	10.1	10.3	8.7	9.8	10.3	10.5	10.9	9.7	9.6	9.8	10.1	10.3	+0.2
Female	_	5.3	5.4	4.9	7.0	6.5	6.3	6.4	7.4	7.9	8.0	8.7	6.2	6.7	6.2	-0.4 s
College Plans:																
None or under 4 years	_	12.3	11.1	10.8	13.6	13.4	11.2	13.2	11.4	12.7	12.4	14.8	10.8	10.0	10.4	+0.4
Complete 4 years	_	7.8	7.0	6.9	7.5	7.2	7.6	7.4	8.4	8.8	8.1	9.1	7.6	7.9	7.7	-0.1
Region:																
Northeast	_	8.8	9.8	7.8	9.5	7.4	7.7	8.3	8.0	6.7	7.4	7.5	7.5	9.7	8.3	-1.4
Midwest	_	9.3	6.0	7.8	8.5	8.9	9.6	8.9	9.0	9.1	9.6	11.2	9.1	9.5	9.0	-0.5
South	_	9.2	9.5	8.5	8.4	10.3	9.1	9.2	10.3	10.8	11.3	12.9	9.4	9.1	9.0	-0.1
West	_	6.2	5.2	5.5	8.3	4.5	5.8	6.7	8.2	10.2	6.1	5.4	6.5	6.3	7.6	+1.2
Population Density:																
Large MSA	_	7.1	8.7	8.5	10.2	7.1	7.2	7.5	9.8	10.6	8.1	9.2	8.8	7.6	8.4	+0.8
Other MSA	_	9.9	7.1	7.6	8.6	8.1	9.4	9.8	9.1	9.9	9.3	10.4	8.2	9.0	8.6	-0.4
Non-MSA	_	7.5	7.8	6.3	6.9	9.7	7.0	6.4	7.7	7.6	9.7	9.8	8.3	9.4	8.9	-0.5
Parental Education: a																
1.0-2.0 (Low)	_	7.7	7.0	5.8	5.4	7.5	8.5	6.9	5.9	10.4	8.6	8.3	6.6	5.9	3.2	-2.8
2.5–3.0	_	7.1	8.4	6.3	6.5	6.5	7.2	7.1	9.6	8.8	8.1	7.1	7.1	7.9	7.5	-0.5
3.5-4.0	_	9.0	6.2	7.6	10.3	8.1	8.8	7.8	8.7	9.2	8.5	10.3	7.5	7.7	9.1	+1.5
4.5–5.0	_	8.1	8.5	7.2	8.3	8.4	8.6	8.7	9.1	9.3	8.6	11.0	9.4	11.7	9.2	-2.6
5.5-6.0 (High)	_	11.3	8.7	11.2	10.2	11.1	8.2	10.7	11.1	12.4	12.2	11.0	11.2	7.8	11.9	+4.1
Race/Ethnicity (2-year average): b																
White	_	_	9.1	8.5	9.2	9.9	9.5	9.6	10.4	10.7	10.5	11.0	11.1	10.3	10.8	+0.4
African American	_	_	5.4	4.6	4.6	5.5	6.5	6.2	6.5	6.8	7.1	7.9	7.5	7.6	7.9	+0.2
Hispanic	_	_	6.0	5.8	5.6	5.1	5.7	6.1	5.4	5.8	5.7	5.1	4.9	5.0	4.5	-0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE 166 STIMULANT-TYPE ADHD DRUGS:

					F	Percentag	ge who s	aid "Yes,	I take th	em now.						2017-
	1991-															2018
	2004	<u>2005</u>	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	3.9	3.5	3.1	3.5	3.7	3.4	3.3	3.5	3.4	3.2	3.6	3.7	3.4	3.7	+0.3
Gender:																
Male	_	4.7	4.8	4.0	4.5	4.6	3.7	4.3	4.6	4.0	4.0	4.6	4.6	4.0	4.7	+0.7
Female	_	3.0	2.1	2.2	2.4	3.0	3.1	2.4	2.5	2.8	2.6	2.8	2.7	2.5	2.9	+0.4
College Plans:																
None or under 4 years	_	4.9	6.0	3.9	3.6	3.0	5.0	2.3	4.1	5.5	2.6	5.9	6.3	3.0	5.9	+2.9
Complete 4 years	_	3.7	3.2	3.0	3.4	3.7	3.3	3.4	3.4	3.3	3.3	3.3	3.5	3.4	3.4	0.0
Region:																
Northeast	_	4.2	3.0	3.1	3.1	5.0	2.1	2.6	2.9	3.8	2.9	3.6	2.5	3.6	4.1	+0.5
Midwest	_	4.4	3.1	3.3	2.7	2.7	3.8	4.0	4.1	3.6	3.8	4.1	4.6	4.0	3.9	-0.1
South	_	3.7	4.1	3.3	4.8	4.3	3.9	3.1	4.4	3.9	3.5	3.8	4.8	4.1	4.8	+0.7
West	_	3.3	3.0	2.5	2.4	2.7	3.0	3.7	1.7	2.1	2.3	2.6	1.6	1.4	1.2	-0.2
Population Density:																
Large MSA	_	3.7	2.5	2.7	3.8	4.0	3.0	3.2	3.0	3.4	2.5	3.2	2.5	3.5	3.3	-0.2
Other MSA	_	4.5	4.1	3.0	3.3	3.8	3.8	3.4	4.0	3.4	3.9	4.1	4.3	3.2	4.6	+1.4
Non-MSA	_	3.0	3.6	3.9	3.3	3.0	3.0	3.4	3.0	3.7	2.7	2.9	3.9	3.6	2.1	-1.5
Parental Education: a																
1.0-2.0 (Low)	_	4.3	3.9	2.8	3.1	3.5	2.2	2.0	2.5	1.9	2.0	2.0	1.7	2.2	4.1	+1.9
2.5–3.0	_	3.2	3.7	3.1	2.2	3.2	2.8	3.0	3.6	2.6	2.8	3.1	2.8	3.1	1.5	-1.6
3.5-4.0	_	3.7	2.7	2.5	2.5	3.3	3.3	2.9	3.1	3.3	3.6	3.3	4.2	2.9	2.6	-0.3
4.5–5.0	_	3.9	2.9	3.2	4.2	3.6	3.3	3.9	3.6	4.0	3.8	4.0	3.9	4.1	5.5	+1.4
5.5-6.0 (High)	_	4.7	4.0	3.9	5.8	5.3	4.1	3.5	3.5	3.8	3.1	4.4	3.9	4.5	4.3	-0.2
Race/Ethnicity (2-year average): b																
White	_	_	4.2	3.7	4.0	4.6	4.5	4.1	4.3	4.3	4.2	4.5	5.2	5.2	5.2	0.0
African American	_	_	2.1	2.2	2.5	2.7	1.8	1.9	2.4	2.6	2.7	2.7	2.0	1.9	2.0	+0.1
Hispanic	_	_	2.5	1.9	1.3	1.5	1.7	2.0	1.7	1.3	1.4	1.6	1.6	1.0	0.9	-0.1

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 167 STIMULANT-TYPE ADHD DRUGS:

					F	Percentag	ge who s	aid "Yes,	I take th	em now.	•					2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	3.4	2.8	2.8	2.9	3.3	3.1	2.8	3.8	3.7	3.4	4.2	3.0	3.0	3.9	+0.8
Gender:																
Male	_	4.1	3.5	3.2	3.4	3.6	4.1	3.0	4.4	4.8	4.2	5.0	3.1	3.5	4.7	+1.2
Female	_	2.7	2.1	2.5	2.4	3.1	2.1	2.7	3.4	2.5	2.7	3.3	2.8	2.5	3.1	+0.6
College Plans:																
None or under 4 years	_	4.8	4.1	3.5	3.2	6.9	4.7	3.3	2.4	5.0	6.1	6.6	4.4	4.1	4.8	+0.6
Complete 4 years	_	3.2	2.6	2.7	2.9	3.0	2.9	2.8	4.0	3.6	3.1	3.9	2.9	3.0	3.7	+0.7
Region:																
Northeast	_	3.3	1.9	2.4	2.9	2.1	2.7	2.9	3.3	5.8	3.3	4.0	2.9	2.5	2.6	+0.1
Midwest	_	3.5	2.9	3.1	3.9	5.2	3.3	3.1	4.1	4.5	3.7	4.6	3.4	2.3	5.2	+2.8 ss
South	_	4.2	3.4	3.5	2.9	4.1	3.6	3.5	5.3	3.3	4.3	5.0	3.7	4.1	4.5	+0.4
West	_	2.0	2.5	2.0	2.1	1.4	2.5	1.4	1.8	2.0	2.0	2.4	1.8	2.7	2.4	-0.3
Population Density:																
Large MSA	_	2.9	2.5	2.2	3.2	3.4	3.3	3.2	3.4	4.6	3.7	4.0	2.6	2.8	3.8	+0.9
Other MSA	_	3.9	3.0	3.1	2.7	3.2	2.9	2.5	4.1	3.4	3.1	4.7	2.5	3.5	4.1	+0.6
Non-MSA	_	3.1	2.6	3.1	3.2	3.4	3.2	3.0	3.9	3.3	3.5	3.1	5.3	2.2	3.5	+1.3 s
Parental Education: a																
1.0-2.0 (Low)	_	2.6	3.6	1.8	1.7	1.5	1.4	1.8	1.9	1.4	1.1	0.9	1.0	1.7	2.3	+0.7
2.5–3.0	_	2.7	1.7	2.1	3.1	2.7	3.2	3.1	4.0	3.1	2.1	2.8	1.3	2.8	2.7	-0.1
3.5-4.0	_	3.7	3.4	3.1	2.3	2.9	3.5	1.8	4.3	3.2	3.1	4.4	2.5	3.3	3.1	-0.2
4.5–5.0	_	2.9	2.6	2.9	2.8	3.6	2.9	3.6	3.6	4.5	3.4	4.2	4.3	3.1	5.3	+2.2 s
5.5-6.0 (High)	_	5.1	3.1	3.3	4.2	5.5	4.6	3.4	4.1	6.1	6.2	6.0	3.9	3.7	5.5	+1.8
Race/Ethnicity (2-year average): b																
White	_	_	3.8	3.3	3.5	3.7	3.8	3.6	4.0	4.7	4.7	5.1	5.1	4.1	4.7	+0.6
African American	_	_	1.2	1.9	1.8	1.3	1.2	1.9	2.8	2.2	1.0	1.4	1.4	1.2	1.5	+0.3
Hispanic			1.3	1.3	1.1	1.6	1.6	1.3	1.7	1.4	0.9	1.0	0.9	1.5	2.1	+0.6

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 168 STIMULANT-TYPE ADHD DRUGS:

					F	Percentag	ge who s	aid "Yes,	I take th	em now.	•					2017-
	1991-															2018
	<u>2004</u>	<u>2005°</u>	2006°	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	2.9	2.3	2.6	2.9	2.9	3.0	3.3	3.8	4.4	3.8	4.0	3.9	3.4	3.5	0.0
Gender:																
Male	_	4.1	2.6	3.7	3.0	2.6	3.6	3.5	3.9	4.5	3.4	4.4	4.7	3.6	3.9	+0.3
Female	_	1.8	2.0	2.0	2.6	3.2	2.5	3.2	3.8	4.2	4.0	2.9	3.0	3.3	3.1	-0.2 s
College Plans:																
None or under 4 years	_	5.3	2.4	3.6	3.3	1.8	3.9	3.9	3.4	5.1	3.4	4.0	2.9	2.9	3.3	+0.4
Complete 4 years	_	2.5	2.3	2.4	2.9	3.0	2.9	3.2	3.8	4.2	3.8	4.0	3.8	3.7	3.3	-0.4 ss
Region:																
Northeast	_	3.5	3.0	2.7	3.2	2.0	3.2	3.3	3.1	3.1	3.6	2.5	3.3	4.8	3.2	-1.7
Midwest	_	2.7	2.0	3.3	2.9	2.7	4.0	4.6	5.0	3.7	4.5	5.0	3.8	4.0	3.8	-0.2
South	_	2.7	2.6	2.8	2.8	4.3	3.3	3.2	3.7	5.4	4.8	5.2	4.1	3.1	3.8	+0.7
West	_	3.0	1.6	1.2	2.9	1.6	1.4	2.3	3.1	4.5	1.6	2.1	4.0	2.6	2.7	+0.2 s
Population Density:																
Large MSA	_	2.3	2.2	2.9	3.7	2.9	2.7	3.0	3.9	5.0	3.5	3.9	4.7	3.6	3.3	-0.2
Other MSA	_	3.5	2.4	2.4	2.9	2.7	3.5	4.5	4.5	4.9	3.9	4.2	4.1	3.5	3.4	-0.1
Non-MSA	_	2.3	2.3	2.4	2.1	3.1	2.3	1.2	2.0	2.3	3.9	3.3	2.1	3.1	3.9	+0.8
Parental Education: a																
1.0-2.0 (Low)	_	2.2	1.0	1.4	1.9	1.3	2.6	2.8	2.5	3.7	1.9	2.0	2.7	1.0	1.0	0.0
2.5–3.0	_	2.0	1.4	2.4	1.9	1.6	2.3	2.2	3.2	4.1	2.9	1.9	2.0	3.0	2.6	-0.4
3.5-4.0	_	2.9	2.1	2.4	2.8	2.8	3.2	3.6	3.2	3.9	2.8	3.1	3.4	2.5	3.4	+0.9
4.5–5.0	_	3.3	3.2	2.1	3.6	3.0	2.9	3.6	4.2	4.3	4.2	5.2	5.1	5.8	3.9	-2.0
5.5-6.0 (High)	_	3.8	3.0	4.3	3.8	5.9	4.7	4.8	6.5	6.9	8.0	6.9	5.2	4.4	6.9	+2.6
Race/Ethnicity (2-year average): b																
White	_	_	3.1	2.9	3.3	3.5	3.7	4.3	4.8	4.8	4.7	4.9	5.2	4.8	4.6	-0.2
African American	_	_	0.6	1.1	1.2	1.3	1.5	1.3	1.8	2.8	2.3	1.5	1.4	2.4	2.8	+0.4
Hispanic	_	_	1.1	0.9	1.2	1.6	1.8	1.7	1.5	1.7	2.0	1.4	1.4	2.1	1.6	-0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE 169
NON-STIMULANT-TYPE ADHD DRUGS:

						Pe	rcentage	who use	ed in lifeti	me						2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700		14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	7.3	7.9	6.3	6.3	5.8	5.8	6.1	5.1	5.1	4.8	5.1	5.7	4.9	4.4	-0.5
Gender:																
Male	_	7.6	8.7	6.7	6.8	6.5	6.6	6.7	5.2	5.7	6.1	5.7	6.7	5.3	5.1	-0.2
Female	_	7.0	6.8	5.9	5.7	5.1	4.9	5.4	4.9	4.4	3.6	4.6	4.8	4.2	3.6	-0.6
College Plans:																
None or under 4 years	_	11.1	12.9	8.1	7.3	8.9	8.8	11.7	8.8	11.5	7.7	7.8	10.0	7.6	6.3	-1.3
Complete 4 years	_	6.9	7.4	6.0	6.2	5.5	5.4	5.7	4.9	4.6	4.6	4.8	5.3	4.6	4.2	-0.5
Region:																
Northeast	_	7.4	6.0	4.3	5.1	6.1	4.6	5.0	4.2	4.7	5.6	5.2	7.1	4.7	5.5	+0.8
Midwest	_	6.9	8.8	7.6	6.7	5.3	6.2	5.5	5.5	3.8	4.7	4.8	5.4	5.3	4.4	-0.9
South	_	7.9	7.5	6.6	7.2	5.8	6.4	7.0	5.7	5.6	5.1	4.8	5.2	5.3	4.4	-0.9
West	_	6.5	9.3	5.3	5.3	6.0	5.0	6.2	4.1	6.0	4.0	5.9	5.8	3.9	3.5	-0.4
Population Density:																
Large MSA	_	5.3	7.8	4.5	6.0	4.0	5.3	5.6	4.4	4.3	4.3	4.6	6.0	4.2	3.9	-0.2
Other MSA	_	8.0	7.8	7.7	6.7	6.8	6.6	6.7	4.7	5.3	5.4	4.9	5.3	5.7	4.7	-1.0
Non-MSA	_	8.6	8.4	5.9	5.9	5.8	4.4	5.7	6.9	5.9	4.3	6.2	6.0	4.0	4.4	+0.5
Parental Education: <sup>a</sup>																
1.0-2.0 (Low)	_	8.7	8.1	4.5	7.0	7.7	7.1	9.1	8.0	5.4	3.4	6.2	4.6	3.6	4.2	+0.6
2.5–3.0	_	9.6	6.7	7.4	5.5	6.0	5.8	6.2	4.4	4.4	4.1	4.9	6.0	6.0	4.1	-1.9
3.5–4.0	_	8.1	10.1	6.5	6.4	5.5	5.4	7.1	5.9	6.4	5.9	4.7	5.3	4.6	5.8	+1.2
4.5–5.0	_	5.5	8.0	5.6	6.9	5.0	5.2	5.3	5.0	4.1	4.8	5.2	6.4	6.2	4.6	-1.7
5.5–6.0 (High)	_	6.6	5.4	6.6	6.3	7.1	5.9	5.4	4.6	5.5	5.1	4.7	6.2	3.4	3.7	+0.3
Race/Ethnicity (2-year average): b																
White	_	_	7.7	7.6	7.3	6.7	5.8	5.6	5.5	5.0	5.2	5.6	6.6	6.4	5.0	-1.4 ss
African American	_	_	6.0	5.0	4.3	4.8	4.9	5.6	4.8	4.0	4.1	3.6	3.7	4.9	5.2	+0.3
Hispanic	_	_	6.5	5.3	3.7	4.7	6.0	6.6	6.0	5.1	4.7	4.1	4.2	3.8	3.1	-0.7

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 170
NON-STIMULANT-TYPE ADHD DRUGS:

#### Trends in <u>Lifetime</u> Prevalence of Legal Use by Subgroups in <u>Grade 10</u>

						Pei	rcentage	who use	d in lifeti	me						2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	8.3	8.3	6.7	6.8	6.8	6.1	6.4	5.2	4.9	5.8	5.8	5.2	4.6	5.1	+0.5
Gender:																
Male	_	9.5	9.2	8.0	7.4	8.9	6.6	6.7	6.4	5.7	7.1	6.4	5.8	5.6	6.1	+0.5
Female	_	7.0	7.5	5.2	6.2	4.8	5.5	6.2	4.1	4.0	4.5	5.1	4.7	3.7	4.0	+0.3
College Plans:																
None or under 4 years	_	12.6	10.1	9.5	10.5	14.0	10.1	10.6	11.2	7.1	8.7	12.1	6.4	6.2	7.9	+1.7
Complete 4 years	_	7.7	8.0	6.3	6.3	6.1	5.6	5.9	4.5	4.7	5.4	5.1	5.0	4.5	4.5	0.0
Region:																
Northeast	_	8.6	8.8	6.5	6.1	7.0	5.7	7.2	5.3	4.7	5.2	4.9	6.1	5.3	4.1	-1.3
Midwest	_	6.9	7.4	6.8	7.7	7.7	5.9	6.7	3.8	4.8	6.8	5.4	4.6	3.8	5.7	+2.0
South	_	10.6	9.6	7.2	8.2	7.2	7.0	6.6	6.1	5.0	6.1	6.9	5.5	4.4	5.6	+1.2
West	_	6.6	7.0	6.1	4.6	5.4	5.3	5.1	5.2	5.1	4.7	5.1	4.8	5.4	4.6	-0.8
Population Density:																
Large MSA	_	6.0	7.2	6.1	4.3	6.2	6.1	5.1	5.3	5.5	5.0	5.4	5.0	4.5	4.2	-0.3
Other MSA	_	9.2	8.4	6.5	7.1	7.5	5.7	6.8	4.9	4.8	5.6	5.4	5.6	5.0	4.9	-0.1
Non-MSA	_	9.3	9.7	8.2	9.6	6.4	6.8	7.4	5.6	4.4	7.6	7.3	4.6	3.9	6.9	+3.0 ss
Parental Education: a																
1.0–2.0 (Low)	_	8.2	10.5	6.6	5.1	7.0	6.2	6.3	7.5	5.6	4.7	7.5	2.8	5.9	4.9	-1.0
2.5–3.0	_	8.7	7.6	6.0	8.3	6.9	6.5	7.7	4.3	4.3	5.7	5.3	4.9	2.2	4.2	+2.0
3.5–4.0	_	7.4	9.7	7.4	7.1	5.3	6.4	5.6	5.3	5.8	7.1	5.1	5.6	4.7	5.8	+1.0
4.5–5.0	_	9.1	7.4	6.3	7.4	7.2	5.5	5.9	5.9	4.4	4.5	6.1	5.5	5.2	4.3	-0.9
5.5-6.0 (High)	_	8.6	8.3	6.3	5.1	7.8	6.4	6.8	4.0	5.7	6.3	6.1	5.5	5.4	6.3	+0.9
Race/Ethnicity (2-year average): b																
White	_	_	9.4	8.3	7.4	7.4	6.9	6.8	6.2	5.4	5.9	6.3	5.9	5.1	5.7	+0.7
African American	_	_	4.7	5.0	4.2	4.6	6.1	4.9	3.2	4.0	5.3	5.1	4.3	5.0	3.6	-1.3
Hispanic			4.9	4.5	5.0	5.7	4.8	5.6	6.4	4.3	3.5	4.7	5.4	4.9	4.4	-0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 171
NON-STIMULANT-TYPE ADHD DRUGS:

#### Trends in <u>Lifetime</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

						Per	centage	who use	d in lifeti	me						2017–
	1991-															2018
	<u>2004</u>	2005°	2006°	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	6.2	6.1	7.0	6.4	5.4	6.7	5.8	5.9	5.4	5.6	5.6	5.8	6.4	6.1	-0.4
Gender:																
Male	_	7.0	6.1	8.3	7.0	6.5	7.7	6.4	5.8	7.1	6.0	6.1	6.8	7.6	6.4	-1.2
Female	_	5.0	5.7	5.6	6.5	4.0	5.6	5.2	5.6	3.8	4.8	5.1	4.8	5.3	4.7	-0.6
College Plans:																
None or under 4 years	_	9.2	7.6	9.4	9.9	6.7	9.0	8.0	8.1	6.3	7.4	7.3	7.3	9.0	6.4	-2.6
Complete 4 years	_	5.3	5.8	6.4	5.5	5.0	6.1	5.2	5.4	4.9	5.0	5.4	5.4	5.7	5.9	+0.2
Region:																
Northeast	_	6.0	5.9	7.6	8.0	5.1	4.9	5.4	6.5	5.5	6.5	5.8	6.8	7.7	6.6	-1.0
Midwest	_	5.8	5.5	7.1	6.8	6.1	8.4	5.0	6.3	5.6	6.9	6.4	6.7	7.2	6.5	-0.7
South	_	7.6	7.4	7.6	5.2	5.7	7.0	6.8	5.8	5.9	6.2	6.9	5.7	7.0	6.3	-0.7
West	_	4.5	4.4	5.1	6.7	4.4	5.7	5.6	5.3	4.3	3.0	2.8	4.6	4.2	5.0	+0.8
Population Density:																
Large MSA	_	5.1	6.1	6.9	6.6	5.6	7.3	5.4	6.1	5.3	6.7	4.5	6.3	6.3	5.8	-0.5
Other MSA	_	7.9	6.2	7.3	6.3	5.0	6.2	6.3	6.2	4.7	5.5	6.2	5.4	6.8	6.5	-0.3
Non-MSA	_	3.8	5.8	6.3	6.4	6.2	7.2	5.5	4.9	7.0	4.6	6.2	6.2	5.8	5.8	-0.1
Parental Education: a																
1.0–2.0 (Low)	_	5.2	4.3	5.5	6.6	6.0	5.1	4.9	5.8	4.7	6.2	5.0	5.7	6.0	3.8	-2.2
2.5–3.0	_	4.1	6.2	5.7	6.4	3.4	6.1	4.5	4.8	5.2	4.5	5.4	3.8	7.7	4.1	-3.6
3.5–4.0	_	7.6	5.9	6.9	7.0	5.2	6.6	5.9	5.6	4.8	5.0	4.1	6.0	5.8	5.3	-0.6
4.5–5.0	_	6.8	6.4	8.1	4.7	6.5	7.9	6.5	6.1	6.2	5.7	6.5	6.4	6.3	8.1	+1.8
5.5-6.0 (High)	_	6.4	6.8	7.8	7.5	6.4	6.6	6.8	7.0	6.3	8.5	7.4	6.3	6.7	9.8	+3.1
Race/Ethnicity (2-year average): b																
White	_	_	6.6	7.3	7.3	6.3	6.7	6.9	6.1	5.9	6.1	6.5	6.9	7.1	7.3	+0.2
African American	_	_	4.9	4.9	5.0	4.7	5.8	5.5	5.9	5.5	5.6	5.5	4.5	6.3	7.7	+1.4
Hispanic	_	_	4.2	4.0	4.7	4.5	4.5	5.2	5.1	4.3	3.7	3.8	3.9	4.4	3.3	-1.1

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE 172 NON-STIMULANT-TYPE ADHD DRUGS:

					F	ercentag	ge who s	aid "Yes,	I take th	em now.	"					2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	2006	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	2.2	1.9	1.4	1.6	1.2	1.4	1.5	1.2	1.4	1.2	1.2	2.0	1.1	1.2	+0.1
Gender:																
Male	_	2.4	2.3	1.6	1.7	1.2	1.5	1.9	1.1	1.6	2.0	1.2	2.0	1.1	1.6	+0.5
Female	_	1.9	1.5	1.3	1.5	1.1	1.3	0.9	1.1	1.0	0.6	1.0	1.8	1.0	0.9	-0.1
College Plans:																
None or under 4 years	_	2.5	3.8	1.3	3.1	1.6	2.1	3.9	1.6	4.2	1.1	3.4	4.0	2.8	3.5	+0.7
Complete 4 years	_	2.1	1.7	1.4	1.5	1.1	1.3	1.2	1.2	1.2	1.3	0.9	1.6	1.0	0.9	0.0
Region:																
Northeast	_	2.4	2.5	1.1	1.8	1.0	1.1	1.1	1.5	1.3	0.6	8.0	1.8	1.3	1.4	+0.1
Midwest	_	2.0	2.7	1.9	1.7	0.7	1.8	1.7	1.3	0.7	1.5	1.6	1.4	1.2	1.0	-0.2
South	_	2.2	1.6	1.5	1.8	1.3	1.4	1.4	1.2	1.8	1.3	1.1	2.4	1.3	1.6	+0.3
West	_	2.0	1.3	0.8	1.2	1.5	1.0	1.4	1.0	1.7	1.2	1.2	1.9	0.6	0.6	0.0
Population Density:																
Large MSA	_	1.4	1.7	0.9	1.9	1.0	1.2	1.3	1.3	1.4	1.1	0.6	2.2	1.2	1.0	-0.2
Other MSA	_	2.3	2.1	1.9	1.5	1.4	1.6	1.7	1.2	1.5	1.4	1.2	1.8	1.0	1.3	+0.2
Non-MSA	_	2.9	1.9	1.1	1.6	0.9	1.1	1.2	0.9	1.2	1.0	1.9	2.0	1.1	1.3	+0.2
Parental Education: a																
1.0-2.0 (Low)	_	2.8	1.2	1.2	1.3	2.1	1.1	1.7	0.4	0.7	0.9	2.4	0.7	0.7	0.4	-0.3
2.5–3.0	_	2.4	1.4	1.1	0.9	0.5	0.7	1.4	8.0	1.0	0.5	1.1	1.9	1.1	0.7	-0.4
3.5–4.0	_	2.3	2.8	0.9	1.9	0.4	1.2	1.7	1.0	1.9	2.4	8.0	1.4	1.2	1.6	+0.4
4.5–5.0	_	1.8	1.8	1.8	1.6	1.9	1.6	1.3	2.0	1.3	1.2	1.3	1.7	1.7	2.1	+0.4
5.5-6.0 (High)	_	2.3	1.5	2.2	2.3	1.2	1.6	1.4	1.4	2.0	0.9	0.3	3.3	0.7	0.5	-0.2
Race/Ethnicity (2-year average): b																
White	_	_	2.3	2.0	1.9	1.6	1.4	1.6	1.5	1.2	1.2	1.4	1.9	1.9	1.5	-0.4
African American	_	_	1.3	0.9	0.9	1.1	1.5	1.5	1.0	1.4	1.3	0.7	1.0	1.7	1.7	0.0
Hispanic	_	_	1.0	0.8	0.7	0.6	0.5	1.0	1.0	0.9	1.2	0.8	1.1	1.2	0.5	-0.7 ss

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 173
NON-STIMULANT-TYPE ADHD DRUGS:

					F	Percentaç	ge who s	aid "Yes,	I take th	em now.	"					2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	2.3	2.3	1.6	1.7	1.9	1.6	1.3	1.3	1.3	1.4	1.7	1.2	1.0	1.4	+0.4
Gender:																
Male	_	2.6	2.7	1.8	1.9	2.2	2.1	1.3	1.6	1.2	1.9	1.8	1.4	0.9	1.3	+0.4
Female	_	1.9	2.0	1.4	1.4	1.5	1.2	1.3	0.9	1.2	1.0	1.6	1.0	1.0	1.4	+0.4
College Plans:																
None or under 4 years	_	4.4	2.6	2.5	1.8	4.4	3.5	2.8	2.3	2.5	1.0	3.2	1.8	1.5	1.7	+0.1
Complete 4 years	_	2.0	2.2	1.4	1.6	1.7	1.4	1.0	1.2	1.2	1.4	1.6	1.1	0.9	1.2	+0.3
Region:																
Northeast	_	3.1	2.6	1.6	1.6	2.9	1.4	1.0	1.4	2.0	1.2	1.6	1.2	1.2	1.2	-0.1
Midwest	_	2.2	2.2	2.3	2.6	2.5	1.2	1.3	0.7	1.1	1.7	2.4	1.3	1.4	1.5	+0.1
South	_	2.2	2.5	1.4	1.9	1.4	2.4	1.3	1.7	1.1	1.9	1.5	1.2	0.7	1.6	+0.9
West	_	1.8	2.0	1.0	0.7	1.2	1.1	1.4	1.1	1.3	0.5	1.4	1.1	1.0	1.3	+0.3
Population Density:																
Large MSA	_	1.5	1.9	1.5	0.9	2.3	2.1	1.2	1.3	1.5	1.2	1.6	1.1	0.9	1.3	+0.4
Other MSA	_	2.7	2.7	1.6	1.9	2.0	1.2	1.0	1.3	1.5	1.5	1.7	1.3	1.1	1.4	+0.3
Non-MSA	_	2.3	2.2	1.7	2.2	1.2	1.8	1.9	1.2	8.0	1.6	2.0	1.3	1.1	1.8	+0.7
Parental Education: a																
1.0-2.0 (Low)	_	1.4	3.2	2.5	1.2	1.3	1.5	1.5	0.5	1.4	0.7	0.3	1.0	1.8	1.2	-0.5
2.5–3.0	_	1.6	1.5	0.6	1.8	1.9	1.6	1.4	1.0	0.8	0.6	1.1	0.8	0.3	1.1	+0.8
3.5-4.0	_	2.5	2.5	1.5	1.4	1.0	2.0	1.2	0.9	2.2	2.0	1.6	0.8	1.3	1.2	-0.1
4.5–5.0	_	2.9	2.6	1.7	2.2	2.7	1.4	1.3	1.8	0.9	1.5	2.2	1.3	0.7	1.4	+0.7
5.5-6.0 (High)	_	2.2	2.5	2.0	1.6	2.8	1.6	1.0	1.9	1.4	1.4	2.3	1.9	1.3	2.1	+0.8
Race/Ethnicity (2-year average): b																
White	_	_	2.6	2.3	1.9	2.0	2.0	1.6	1.3	1.3	1.5	2.1	2.0	1.3	1.4	+0.1
African American	_	_	1.7	1.2	0.7	0.7	1.0	1.0	0.8	1.6	1.7	0.9	0.5	0.6	0.7	0.0
Hispanic	_	_	1.3	0.8	1.1	1.6	1.1	1.0	1.3	0.7	0.2	0.5	0.4	0.5	0.7	+0.3

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 174
NON-STIMULANT-TYPE ADHD DRUGS:

					F	Percentag	ge who s	aid "Yes,	I take th	em now.						2017-
	1991-															2018
	<u>2004</u>	2005°	2006 <sup>c</sup>	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	1.6	1.6	1.7	1.9	1.5	2.3	1.9	1.8	1.8	2.2	1.5	2.1	2.5	2.6	+0.1
Gender:																
Male	_	1.3	1.4	1.3	1.1	1.5	2.3	1.7	1.6	2.4	2.2	1.8	2.5	2.5	2.3	-0.2
Female	_	1.6	1.8	1.6	2.2	1.6	2.3	1.9	2.0	1.3	2.2	1.0	1.6	2.3	2.1	-0.2
College Plans:																
None or under 4 years	_	2.9	8.0	2.5	2.2	1.5	3.2	3.3	2.7	1.7	3.6	2.0	1.7	3.3	3.3	0.0
Complete 4 years	_	1.2	1.7	1.6	1.9	1.5	2.1	1.5	1.6	1.6	1.9	1.4	2.0	2.3	2.4	+0.1
Region:																
Northeast	_	2.5	1.5	2.4	3.9	1.1	1.9	2.8	1.5	2.2	2.2	1.5	3.2	2.1	2.6	+0.5
Midwest	_	1.6	1.5	1.7	2.0	1.9	2.8	1.5	2.5	1.6	2.7	1.8	2.4	3.1	2.8	-0.4
South	_	1.5	1.9	1.9	1.1	1.9	2.4	2.3	1.4	2.1	2.3	1.7	1.9	2.7	2.5	-0.2
West	_	0.8	1.1	8.0	1.8	0.7	1.9	1.1	1.8	1.3	1.8	8.0	1.3	1.8	2.6	+0.8
Population Density:																
Large MSA	_	1.4	1.9	1.7	2.4	1.8	1.7	1.9	1.8	2.6	2.4	1.2	1.9	2.5	3.0	+0.4
Other MSA	_	1.9	1.3	2.1	1.7	1.2	2.5	2.0	2.1	1.3	2.5	1.6	2.4	3.0	2.2	-0.7
Non-MSA	_	1.0	1.5	1.1	1.9	1.7	2.7	1.6	1.1	1.9	1.5	1.6	1.7	1.4	2.7	+1.3
Parental Education: a																
1.0-2.0 (Low)	_	0.3	2.2	1.0	2.2	1.3	3.3	1.8	2.3	2.2	3.8	1.6	2.2	2.1	1.6	-0.5
2.5–3.0	_	1.5	0.9	1.5	1.9	0.9	2.2	1.6	1.6	1.8	1.7	0.9	1.8	3.4	1.3	-2.0
3.5-4.0	_	2.4	1.3	1.9	1.8	1.4	2.4	1.6	1.8	1.3	1.7	0.9	2.0	2.3	2.5	+0.2
4.5–5.0	_	1.7	1.6	1.6	1.5	2.1	2.3	2.2	1.6	1.7	2.4	1.5	1.7	2.5	3.3	+0.8
5.5-6.0 (High)	_	0.9	2.8	2.3	2.7	1.2	1.8	1.6	2.1	2.8	2.8	2.6	2.5	2.5	3.9	+1.4
Race/Ethnicity (2-year average): b																
White	_	_	1.7	1.7	1.9	1.7	2.1	2.4	1.9	1.7	2.0	2.1	2.2	2.7	3.0	+0.4
African American	_	_	2.0	1.8	2.0	1.5	1.5	1.9	1.9	1.8	2.4	2.0	1.1	1.7	2.5	+0.9
Hispanic	_	_	1.2	1.3	1.2	1.4	1.7	1.1	1.4	2.0	1.8	1.1	0.9	1.8	1.2	-0.6 s

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE 175
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

						Pei	rcentage	who use	d in lifeti	me						2017-
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400		13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	13.7	15.8	13.4	13.1	12.8	12.8	12.4	11.6	11.5	11.2	11.4	12.1	10.9	11.0	+0.1
Gender:																
Male	_	14.9	18.0	14.8	14.7	14.5	14.5	13.7	13.3	13.6	12.7	12.8	14.2	12.5	13.1	+0.7
Female	_	12.4	13.2	12.1	11.5	11.4	11.3	10.9	10.0	9.4	9.9	10.2	10.0	8.6	9.2	+0.6
College Plans:																
None or under 4 years	_	20.6	24.2	17.9	17.1	15.8	17.2	18.8	16.7	21.5	17.2	14.2	20.6	15.7	16.5	+0.8
Complete 4 years	_	12.9	14.9	12.9	12.7	12.6	12.4	11.9	11.3	10.8	10.8	11.1	11.4	10.3	10.2	-0.2
Region:																
Northeast	_	12.9	12.0	10.6	13.7	14.3	9.9	11.0	9.7	11.0	11.5	10.1	11.6	10.2	12.5	+2.3
Midwest	_	14.2	15.3	14.7	12.5	11.6	13.8	12.0	11.4	10.0	11.0	11.8	12.3	12.4	10.6	-1.8
South	_	15.1	16.5	14.7	15.0	14.2	14.1	13.2	13.9	13.6	11.8	13.0	13.4	12.2	13.1	+0.9
West	_	11.3	17.8	11.3	10.8	11.0	11.6	12.7	8.9	10.0	10.1	9.0	9.6	7.7	6.6	-1.1
Population Density:																
Large MSA	_	11.4	14.1	11.1	12.3	10.1	11.3	11.9	10.6	10.1	9.8	10.3	11.0	10.8	9.9	-0.9
Other MSA	_	15.7	16.2	14.7	14.3	14.2	14.3	13.2	11.7	11.4	12.5	11.5	12.6	11.1	12.8	+1.6
Non-MSA	_	13.1	17.6	13.9	11.6	13.2	11.4	11.7	13.1	13.7	10.3	12.6	12.3	10.4	8.7	-1.7
Parental Education: a																
1.0-2.0 (Low)	_	18.8	17.8	12.6	17.5	17.0	13.9	15.3	12.5	8.6	7.8	12.7	10.9	7.4	11.5	+4.1
2.5–3.0	_	14.3	16.3	15.6	11.9	12.9	13.9	13.0	12.4	9.4	10.6	11.1	14.2	12.3	9.3	-2.9
3.5-4.0	_	15.7	16.2	14.2	12.6	12.6	11.7	14.0	12.1	13.4	11.5	11.4	10.9	9.8	11.4	+1.5
4.5–5.0	_	11.3	15.5	11.7	13.3	12.0	12.5	11.3	12.0	11.5	11.9	12.2	12.6	12.0	12.9	+0.9
5.5-6.0 (High)	_	13.0	13.4	13.5	14.8	13.7	13.7	11.5	9.6	11.8	11.1	10.8	11.7	11.5	10.7	-0.9
Race/Ethnicity (2-year average): b																
White	_	_	15.2	15.7	15.0	14.4	13.8	13.1	12.7	12.3	12.7	13.4	14.4	13.9	12.8	-1.1
African American	_	_	11.0	9.5	9.8	11.3	11.5	10.3	9.4	10.1	9.6	8.8	9.2	10.9	11.2	+0.3
Hispanic	_	_	12.4	11.7	9.7	10.4	11.2	12.2	10.7	8.2	8.5	8.2	8.2	7.4	6.7	-0.7

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 176
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

						Pei	rcentage	who use	d in lifeti	me						2017–
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	.0.4
Total	_	14.3	14.2	12.9	12.8	13.0	12.7	12.0	12.0	11.7	11.3	13.1	11.5	10.1	12.1	+2.1 s
Gender:		40.5	45.0	45.4	440	45.5	444	40.0	40.0	440	40.0	440	40.4	44.0	44.5	.0.7
Male	_	16.5	15.2	15.1	14.8	15.5	14.1	13.2	13.8	14.6	13.8	14.9	12.4	11.8	14.5	+2.7
Female	_	12.0	12.9	10.8	10.9	10.5	11.3	11.0	10.3	8.7	8.8	11.3	10.5	8.4	9.6	+1.2
College Plans:																
None or under 4 years	_	19.2	20.9	16.6	20.1	20.9	19.3	16.7	17.7	15.9	19.6	21.9	16.4	14.1	17.2	+3.0
Complete 4 years	_	13.6	13.2	12.4	11.8	12.2	11.9	11.5	11.4	11.2	10.3	12.2	10.9	9.6	11.1	+1.6
Region:																
Northeast	_	14.3	11.8	12.2	11.4	11.5	11.8	12.0	12.2	12.5	10.2	13.0	11.4	9.1	8.9	-0.2
Midwest	_	12.8	12.9	13.7	14.5	14.2	13.3	13.6	9.6	12.4	13.4	12.5	10.0	7.9	15.7	+7.8 sss
South	_	17.6	17.8	13.2	14.2	15.2	14.7	13.5	15.3	12.4	13.2	15.0	13.6	11.5	12.8	+1.3
West	_	11.3	12.0	12.3	10.2	10.0	9.5	7.9	9.8	9.6	7.0	10.7	9.7	10.8	9.4	-1.3
Population Density:																
Large MSA	_	12.0	12.3	11.2	10.3	12.8	11.7	10.8	11.4	11.8	9.6	12.6	10.4	9.0	10.4	+1.4
Other MSA	_	15.5	15.1	13.7	12.3	13.6	12.9	12.0	12.1	11.5	11.2	12.7	11.7	10.8	12.3	+1.4
Non-MSA	_	14.7	14.7	13.9	17.4	12.0	13.6	13.6	12.6	12.0	14.4	14.8	12.6	9.7	14.1	+4.4 s
Parental Education: <sup>a</sup>																
1.0-2.0 (Low)	_	11.9	16.0	11.5	9.6	12.7	12.6	11.0	12.3	11.4	7.2	12.7	7.8	10.7	10.9	+0.2
2.5–3.0	_	15.0	14.6	12.6	14.0	12.3	14.5	14.4	12.5	11.6	9.8	12.1	11.1	8.3	10.8	+2.5
3.5-4.0	_	12.9	16.1	12.8	14.0	11.1	12.6	11.5	11.2	12.8	12.5	13.7	10.8	10.2	12.0	+1.8
4.5–5.0	_	14.8	12.2	13.5	13.2	13.5	11.8	11.2	13.0	11.8	10.5	12.0	11.8	10.9	13.3	+2.4
5.5–6.0 (High)	_	15.9	13.5	12.6	10.7	15.6	13.5	11.1	11.6	12.3	13.3	15.1	13.0	10.4	13.6	+3.3
Race/Ethnicity (2-year average): b																
White	_	_	16.0	15.0	14.3	14.1	13.9	13.7	13.2	13.3	13.4	14.1	14.1	12.4	13.7	+1.3 s
African American	_	_	8.8	10.4	9.1	8.4	10.5	9.9	8.3	9.2	9.3	9.7	10.0	9.3	7.4	-1.9 s
Hispanic	_	_	8.7	8.5	8.6	9.8	9.6	9.3	10.5	7.4	5.9	8.0	8.8	8.7	8.4	-0.2

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 177
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

#### Trends in <u>Lifetime</u> Prevalence of Legal Use by Subgroups in <u>Grade 12</u>

	Percentage who used in lifetime														2017–	
	1991-															2018
	<u>2004</u>	2005°	2006°	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	12.4	11.7	12.1	13.1	11.0	12.7	12.2	12.7	13.2	12.6	13.7	12.7	13.0	12.7	-0.3
Gender:																
Male	_	15.8	13.2	15.7	14.6	13.0	14.7	14.3	14.4	15.5	13.5	13.4	14.5	15.3	14.6	-0.7
Female	_	8.8	9.6	8.6	11.5	9.1	10.1	9.9	10.8	10.6	11.0	12.6	10.2	10.2	9.7	-0.6
College Plans:																
None or under 4 years	_	16.7	16.3	15.7	18.8	17.3	16.1	17.4	16.6	16.3	16.9	18.9	15.5	15.1	14.8	-0.3
Complete 4 years	_	11.3	10.6	11.2	11.2	10.6	11.8	11.0	11.8	12.2	11.4	13.0	11.6	12.1	11.8	-0.2
Region:																
Northeast	_	13.1	13.8	12.2	14.2	11.2	11.1	12.0	13.1	10.5	12.0	11.5	13.1	15.4	12.5	-2.9
Midwest	_	12.7	9.7	12.5	12.0	12.9	14.7	12.3	12.9	12.5	13.7	15.5	13.4	14.1	13.3	-0.8
South	_	13.9	14.0	13.3	12.3	14.0	13.6	13.0	13.0	14.8	14.7	17.3	13.7	13.7	12.9	-0.7
West	_	8.6	8.1	9.2	12.5	7.2	10.3	10.9	12.0	13.2	8.5	7.9	9.7	9.4	11.8	+2.4
Population Density:																
Large MSA	_	10.4	12.6	12.4	14.5	10.9	12.4	10.6	13.4	13.9	12.3	12.4	13.6	12.0	12.2	+0.3
Other MSA	_	14.6	11.1	12.6	12.5	11.2	13.3	14.1	13.2	13.3	12.6	14.5	12.0	13.4	13.0	-0.4
Non-MSA	_	9.9	11.6	10.5	10.6	14.2	11.8	9.8	10.5	11.8	12.9	14.0	12.9	13.5	12.9	-0.7
Parental Education: a																
1.0-2.0 (Low)	_	10.1	10.3	9.5	10.7	11.1	11.5	10.4	9.7	13.1	12.1	11.1	11.9	10.2	6.3	-3.9
2.5–3.0	_	10.0	12.5	10.8	10.1	8.9	10.5	10.0	12.5	12.2	11.6	11.5	9.6	13.4	10.5	-3.0
3.5–4.0	_	13.6	10.4	12.2	14.4	11.8	13.1	11.7	12.5	12.4	11.4	13.2	11.9	11.4	12.4	+1.0
4.5–5.0	_	12.1	12.3	12.2	11.2	12.8	14.4	13.0	12.8	13.4	12.5	15.4	13.8	15.7	14.7	-1.0
5.5-6.0 (High)	_	15.3	12.2	15.2	15.2	14.9	13.4	14.9	14.8	17.0	17.5	16.0	15.8	13.7	19.0	+5.4
Race/Ethnicity (2-year average): b																
White	_	_	13.0	13.1	13.6	13.8	14.0	14.4	14.5	14.5	14.3	15.3	15.8	15.3	15.8	+0.6
African American	_	_	8.3	8.0	8.0	8.8	10.4	9.7	9.7	10.1	10.6	11.1	11.0	11.7	11.7	+0.1
Hispanic	_	_	9.0	8.7	8.9	8.0	8.1	8.9	8.2	8.4	8.4	8.1	8.0	8.4	7.2	-1.1

Source. The Monitoring the Future study, the University of Michigan.

Notes.

Level of significance of difference between the two most recent classes: s = .05, ss = .001, '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE 178
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

	Percentage who said "Yes, I take them now."														2017-	
	1991-															2018
	<u>2004</u>	<u>2005</u>	2006	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	6.1	5.2	4.5	5.1	4.9	4.7	4.9	4.7	5.0	4.6	4.9	5.6	4.7	5.2	+0.5
Gender:																
Male	_	7.1	6.9	5.6	6.3	5.9	5.0	6.3	5.8	5.7	6.1	5.9	6.6	5.6	6.8	+1.2
Female	_	5.0	3.3	3.3	3.9	4.1	4.4	3.5	3.6	4.0	3.4	4.0	4.5	3.6	4.0	+0.4
College Plans:																
None or under 4 years	_	7.1	8.6	5.3	6.9	4.6	6.5	6.3	5.5	9.0	3.7	9.0	9.6	6.3	9.8	+3.5
Complete 4 years	_	5.9	4.8	4.4	4.9	4.9	4.5	4.8	4.7	4.7	4.8	4.5	5.2	4.5	4.6	+0.1
Region:																
Northeast	_	6.2	5.0	4.1	4.8	6.1	3.5	4.1	4.4	5.0	3.7	4.5	4.4	4.8	5.9	+1.1
Midwest	_	6.9	5.2	5.5	4.8	3.6	5.3	5.8	5.3	4.7	5.3	5.9	6.2	5.6	5.1	-0.5
South	_	5.9	5.7	4.6	6.5	5.7	5.3	4.7	5.6	5.9	5.1	5.1	6.7	5.6	6.9	+1.3
West	_	5.6	4.4	3.5	3.6	4.2	3.8	5.0	2.8	3.8	3.7	3.6	3.7	2.3	2.0	-0.2
Population Density:																
Large MSA	_	5.5	4.1	3.9	5.4	4.9	4.1	4.9	4.7	5.0	3.9	4.1	4.9	5.0	4.6	-0.4
Other MSA	_	6.7	5.8	4.7	5.1	5.3	5.4	5.2	5.2	5.0	5.4	5.6	6.0	4.4	6.5	+2.1
Non-MSA	_	5.7	5.6	5.0	4.6	4.1	3.9	4.4	3.8	5.0	3.9	4.5	5.6	5.1	3.4	-1.7
Parental Education: a																
1.0-2.0 (Low)	_	7.0	4.5	3.7	4.9	4.7	3.3	3.7	2.9	2.9	2.9	4.4	2.7	3.0	4.9	+1.9
2.5–3.0	_	5.3	5.0	4.5	3.0	3.9	3.6	4.5	4.3	3.8	3.4	4.0	5.0	4.7	2.3	-2.3 s
3.5-4.0	_	6.1	5.3	3.4	4.4	4.1	4.3	4.7	4.2	5.1	5.8	4.4	5.4	4.1	4.5	+0.4
4.5–5.0	_	5.9	4.5	4.7	5.8	5.6	4.7	5.2	5.8	5.3	5.5	5.7	5.9	5.7	8.2	+2.4
5.5-6.0 (High)	_	7.1	5.3	6.2	8.4	6.2	6.1	5.3	4.5	6.1	4.3	5.3	6.5	5.7	5.4	-0.3
Race/Ethnicity (2-year average): b																
White	_	_	6.4	5.5	5.9	6.3	5.9	5.8	6.0	5.8	5.7	6.3	7.5	7.3	7.0	-0.3
African American	_	_	3.3	3.2	3.5	3.8	3.2	3.1	3.1	4.0	4.2	3.5	3.1	3.8	3.9	+0.1
Hispanic			3.4	2.7	2.2	2.3	2.4	3.0	2.7	2.2	2.7	2.6	2.5	2.1	1.6	-0.5

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 179
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

	Percentage who said "Yes, I take them now."													2017-		
	1991-															2018
	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	
Total	_	5.6	4.8	4.2	4.5	5.0	4.6	4.2	5.1	5.0	4.8	5.8	4.3	4.0	5.1	+1.1
Gender:																
Male	_	6.4	5.6	4.8	5.2	5.7	5.8	4.5	5.8	6.3	5.9	6.8	4.7	4.5	6.2	+1.7
Female	_	4.5	3.9	3.7	3.8	4.3	3.2	4.0	4.5	3.6	3.7	4.9	3.8	3.5	4.2	+0.7
College Plans:																
None or under 4 years	_	8.7	6.2	5.4	4.8	9.9	7.7	6.2	3.9	7.5	7.7	9.3	6.5	5.4	5.6	+0.2
Complete 4 years	_	5.2	4.5	4.0	4.4	4.5	4.2	4.0	5.2	4.7	4.4	5.5	4.1	3.9	4.9	+1.0
Region:																
Northeast	_	6.0	3.8	4.0	4.3	4.4	4.0	4.1	4.8	7.4	4.6	5.8	4.1	3.2	3.5	+0.3
Midwest	_	5.7	4.7	5.1	6.2	7.3	4.1	4.5	4.6	5.6	5.3	6.5	4.7	3.4	6.5	+3.1 s
South	_	6.2	5.7	4.6	4.8	5.5	6.0	4.9	7.2	4.5	5.9	6.7	5.1	5.1	5.8	+0.8
West	_	3.9	4.2	2.9	2.6	2.4	3.4	2.9	2.9	3.3	2.7	3.5	3.1	3.6	3.6	0.0
Population Density:																
Large MSA	_	4.6	4.0	3.2	4.1	5.5	4.9	4.5	4.8	5.8	4.9	5.6	3.7	3.6	4.9	+1.3
Other MSA	_	6.4	5.4	4.8	4.3	5.0	4.2	3.8	5.2	5.0	4.5	6.3	3.9	4.6	5.2	+0.7
Non-MSA	_	4.9	4.4	4.2	5.5	4.3	5.0	4.8	5.3	4.0	5.3	4.7	6.5	3.3	5.1	+1.8 s
Parental Education: a																
1.0-2.0 (Low)	_	3.5	5.7	3.6	2.6	2.3	3.0	3.5	2.3	2.7	1.7	1.3	2.2	3.1	3.3	+0.1
2.5-3.0	_	4.2	3.2	2.8	4.6	4.4	4.7	4.7	5.1	3.7	2.8	3.9	2.3	3.3	3.4	+0.1
3.5-4.0	_	5.9	5.1	4.5	3.7	3.8	5.3	3.1	5.2	5.3	5.1	6.0	3.5	4.4	4.2	-0.1
4.5–5.0	_	5.6	4.9	4.5	5.0	5.8	4.2	4.9	5.2	5.6	4.8	5.9	5.7	3.9	6.8	+2.9 s
5.5–6.0 (High)	_	7.6	5.3	5.1	5.2	8.1	5.7	4.7	6.1	7.5	7.7	8.4	5.4	4.9	7.2	+2.3
Race/Ethnicity (2-year average): b																
White	_	_	6.1	5.3	5.2	5.5	5.4	5.1	5.4	6.1	6.2	7.0	7.0	5.4	6.0	+0.6
African American	_	_	2.6	2.7	2.6	2.1	2.3	3.1	3.8	4.0	2.8	2.2	1.9	1.8	2.2	+0.4
Hispanic	_	_	2.2	1.7	1.9	2.8	2.7	2.3	2.8	1.9	1.3	1.7	1.4	1.9	2.6	+0.7

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .011. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on one of four forms; N is one third of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 180
EITHER STIMULANT-TYPE OR NON-STIMULANT-TYPE ADHD DRUGS:

	Percentage who said "Yes, I take them now."														2017–	
	1991-															2018
	<u>2004</u>	2005°	2006°	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>change</u>
Approximate weighted N =	_	14,500	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	0.4
Total	_	4.5	3.7	4.1	4.4	4.3	5.2	5.1	5.5	6.0	5.5	5.3	5.6	5.7	5.9	+0.1
Gender:																
Male	_	5.5	3.9	5.2	3.9	3.9	5.8	5.2	5.5	6.5	5.1	5.7	6.7	5.9	6.1	+0.2
Female	_	3.4	3.5	3.4	4.6	4.5	4.6	4.9	5.4	5.6	5.7	4.0	4.4	5.3	5.1	-0.3
College Plans:																
None or under 4 years	_	8.2	3.2	5.9	5.2	3.1	6.5	6.9	5.8	6.9	6.3	5.6	4.0	5.5	6.5	+1.0
Complete 4 years	_	3.7	3.7	3.8	4.4	4.3	4.9	4.6	5.3	5.7	5.2	5.4	5.6	5.9	5.4	-0.5 s
Region:																
Northeast	_	6.3	4.1	4.7	5.9	3.0	5.0	6.3	4.8	5.1	5.5	3.8	6.0	7.1	5.4	-1.7
Midwest	_	4.0	3.5	5.0	4.5	4.5	6.7	6.3	7.2	5.0	6.1	6.8	5.7	7.1	6.3	-0.8
South	_	4.2	4.2	4.5	3.9	5.8	5.4	4.9	4.8	7.4	6.6	6.6	5.9	5.6	6.2	+0.6
West	_	4.0	2.7	2.1	4.5	2.3	3.3	3.3	4.8	5.7	3.2	3.0	4.7	4.0	5.3	+1.4
Population Density:																
Large MSA	_	3.5	3.7	4.5	5.7	4.5	4.3	4.6	5.6	6.9	5.4	5.1	6.4	6.1	6.2	+0.1
Other MSA	_	5.6	3.6	4.2	4.3	3.7	6.0	6.4	6.3	6.2	5.7	5.7	6.0	6.2	5.4	-0.8 s
Non-MSA	_	3.5	3.8	3.4	3.5	4.9	4.4	2.6	3.0	4.3	5.3	4.8	3.6	4.2	6.4	+2.2
Parental Education: a																
1.0-2.0 (Low)	_	2.7	3.3	2.3	4.2	2.3	5.1	4.8	3.7	5.7	4.8	3.3	4.8	3.0	2.6	-0.4
2.5–3.0	_	3.7	2.0	3.8	3.2	2.5	4.4	3.6	4.8	5.7	4.4	2.8	3.4	5.9	4.1	-1.8 s
3.5-4.0	_	5.0	3.3	4.1	4.1	3.9	5.2	5.3	5.0	5.1	4.2	4.1	5.2	4.3	5.6	+1.3
4.5–5.0	_	5.0	4.6	3.7	4.8	4.8	5.4	5.6	5.7	5.8	5.7	6.5	6.8	8.3	6.8	-1.5
5.5-6.0 (High)	_	4.8	5.3	6.2	6.5	7.4	6.5	6.3	8.3	9.9	11.0	9.0	6.9	7.0	10.4	+3.3
Race/Ethnicity (2-year average): b																
White	_	_	4.6	4.5	4.9	4.9	5.6	6.6	6.6	6.4	6.3	6.4	7.0	7.2	7.5	+0.2
African American	_	_	2.3	2.5	3.0	2.7	3.0	3.2	3.2	4.1	4.3	3.2	2.5	3.8	4.8	+1.0
Hispanic	_		2.3	2.2	2.4	2.8	3.1	2.5	2.7	3.3	3.5	2.5	2.3	3.5	2.6	-0.9

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; N is two sixths of N indicated in Table S3.

<sup>&</sup>lt;sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>&</sup>lt;sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>&</sup>lt;sup>c</sup>Data from one of the questionnaire forms was omitted in 2005 due to an error in the skip pattern in the questionnaire. For the 2006 results by race/ethnicity, data from the remaining form in 2005 were double-weighted to account for the omission of the other form.

TABLE S1
Approximate Weighted Ns by Subgroups in Grade 8

	<u>1991</u>	1992	<u>1993</u>	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Total	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800
Gender															
Male	8,600	8,800	8,600	8,300	8,100	8,400	8,600	8,600	7,800	7,900	7,500	7,000	7,600	8,100	8,000
Female	8,600	9,300	9,200	8,600	8,700	8,800	9,300	8,900	8,400	8,300	8,300	7,600	8,400	8,500	8,400
College Plans															
None or under 4 years	2,300	2,400	2,100	2,000	1,900	2,200	1,900	1,800	1,700	1,600	1,600	1,300	1,600	1,600	1,600
Complete 4 years	14,600	15,400	15,400	14,700	14,800	14,800	15,800	15,600	14,500	14,500	14,100	13,400	14,500	15,000	14,800
Region															
Northeast	3,000	3,700	3,900	3,400	3,100	3,200	3,400	3,300	3,000	2,800	2,900	2,800	3,200	3,200	3,200
Midwest	5,300	5,300	4,700	4,200	4,300	4,600	4,100	4,300	4,200	4,300	4,000	4,000	4,100	4,000	3,700
South	6,300	6,200	6,400	6,300	6,600	6,300	7,200	6,600	6,100	6,300	5,900	5,400	6,300	6,300	6,300
West	2,900	3,400	3,300	3,400	3,500	3,700	3,900	3,900	3,400	3,300	3,400	2,900	2,900	3,500	3,600
Population Density															
Large MSA	4,500	5,700	5,500	4,400	5,200	5,200	5,000	4,800	4,800	4,900	4,700	4,500	4,900	5,000	5,400
Other MSA	8,400	8,300	8,800	8,300	7,800	8,400	9,000	8,800	7,900	7,900	7,500	6,900	7,700	7,900	7,400
Non-MSA	4,600	4,600	4,000	4,600	4,500	4,200	4,600	4,500	4,000	3,900	4,000	3,700	3,900	4,100	4,000
Parental Education															
1.0-2.0 (Low)	1,400	1,700	1,700	1,600	1,500	1,500	1,500	1,300	1,300	1,300	1,300	1,100	1,100	1,200	1,400
2.5–3.0	4,400	4,600	4,500	4,100	3,900	4,300	4,000	3,900	3,800	3,700	3,400	3,200	3,400	3,400	3,400
3.5-4.0	4,100	4,300	4,300	4,200	4,000	4,100	4,300	4,100	3,800	3,900	4,000	3,500	3,700	4,000	3,700
4.5–5.0	4,100	4,100	4,100	3,900	3,900	3,900	4,500	4,500	4,000	3,900	3,900	3,800	4,200	4,300	4,200
5.5-6.0 (High)	2,200	2,300	2,300	2,200	2,300	2,200	2,600	2,700	2,200	2,200	2,100	2,100	2,400	2,500	2,600
Race/Ethnicity (2-year average) <sup>a</sup>															
White	_	21,900	22,000	20,900	19,800	20,200	21,400	21,300	19,800	18,900	18,600	17,600	18,400	20,400	20,500
African American	_	4,200	4,800	5,500	5,600	5,300	4,700	4,900	5,000	4,800	4,500	4,500	4,400	3,900	3,800
Hispanic	_	3,400	3,600	4,000	4,000	4,000	4,200	4,100	4,100	4,000	4,100	3,900	3,400	3,200	3,600

Table continued on next page.

TABLE S1 (cont.) **Approximate Weighted** *N* s by Subgroups in <u>Grade 8</u>

	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	2015	2016	2017	2018
Total	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000
Gender													
Male	7,800	7,800	7,600	7,100	7,100	7,600	7,200	7,000	6,800	6,700	8,000	7,200	6,500
Female	8,200	7,900	7,600	7,400	7,800	7,900	7,400	7,100	7,200	7,200	8,200	7,500	6,800
College Plans													
None or under 4 years	1,500	1,300	1,200	1,100	1,200	1,100	980	900	1,000	1,000	1,200	1,300	1,400
Complete 4 years	14,600	14,400	14,000	13,500	13,800	14,500	13,700	13,300	13,000	12,900	15,100	13,300	11,800
Region													
Northeast	2,900	2,400	2,600	2,500	2,500	2,900	2,800	2,500	2,400	2,200	2,800	2,600	2,500
Midwest	3,500	3,600	3,400	3,400	3,700	3,400	3,200	3,400	3,200	3,000	3,700	3,200	3,100
South	6,300	6,400	5,600	5,700	5,600	6,200	5,800	5,400	5,600	5,900	6,500	6,000	5,100
West	3,800	3,700	4,100	3,400	3,500	3,500	3,300	3,300	3,400	3,300	3,900	3,500	3,300
Population Density													
Large MSA	5,400	5,000	5,100	4,500	4,600	5,400	5,200	4,800	4,700	4,300	5,500	4,600	4,500
Other MSA	7,300	7,800	7,500	7,300	7,500	7,300	6,900	6,800	6,800	7,100	8,200	7,600	6,700
Non-MSA	3,800	3,300	3,100	3,200	3,200	3,300	3,000	3,000	3,100	3,000	3,200	3,100	2,700
Parental Education													
1.0-2.0 (Low)	1,400	1,400	1,300	1,200	1,400	1,300	1,300	1,400	1,300	1,400	1,600	1,600	1,400
2.5–3.0	3,300	3,100	2,800	2,700	2,800	2,700	2,500	2,400	2,400	2,500	2,800	2,600	2,400
3.5-4.0	3,800	3,700	3,500	3,300	3,400	3,500	3,000	2,900	3,100	2,900	3,300	3,100	2,700
4.5–5.0	4,000	3,900	4,100	3,900	3,800	4,100	3,900	3,900	3,600	3,500	4,300	3,600	3,400
5.5-6.0 (High)	2,300	2,300	2,300	2,100	2,200	2,700	2,600	2,400	2,300	2,200	2,700	2,400	2,100
Race/Ethnicity (2-year average) <sup>a</sup>													
White	19,500	18,300	17,300	16,400	16,000	16,700	16,300	14,800	13,100	12,700	13,800	13,700	12,200
African American	4,000	3,900	4,000	4,100	4,000	3,700	3,500	3,500	4,100	4,300	4,100	3,600	2,900
Hispanic	4,700	5,400	5,100	4,700	5,000	5,200	5,200	5,500	5,700	6,200	7,200	8,000	7,300

Source. The Monitoring the Future study, the University of Michigan.

Notes. '—' indicates data not available. See appendix B for definition of variables in table.

Caution: The Ns in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these Ns need to be adjusted appropriately.

Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such

indication, the entire sample received the question.

indication, the entire sample received the question.

<sup>&</sup>lt;sup>a</sup>Ns for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE S2 Approximate Weighted Ns by Subgroups in Grade 10

	<u>1991</u>	1992	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Total	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200
Gender															
Male	7,200	7,000	7,300	7,700	8,300	7,500	7,400	7,100	6,300	6,800	6,600	6,900	7,500	7,900	7,900
Female	7,400	7,400	7,800	7,900	8,400	7,800	7,800	7,700	7,000	7,200	7,100	7,100	8,000	8,300	8,000
College Plans															
None or under 4 years	2,600	2,400	2,500	2,700	2,500	2,300	2,200	2,200	1,900	1,900	1,900	2,000	2,100	1,900	1,800
Complete 4 years	11,900	12,000	12,400	12,800	14,200	13,000	13,000	12,500	11,500	12,100	11,900	12,100	13,400	14,300	14,100
Region															
Northeast	2,700	3,000	2,900	3,100	3,300	3,100	3,300	3,100	3,000	2,800	2,700	2,600	3,400	3,600	3,500
Midwest	3,700	3,800	4,800	4,700	4,400	3,900	3,900	3,600	3,100	3,700	4,100	3,700	4,000	4,600	4,500
South	4,900	5,000	4,900	5,200	6,100	5,600	5,500	5,200	4,700	5,000	5,000	5,100	4,900	4,900	5,000
West	3,500	3,000	2,700	2,800	3,200	3,000	2,800	3,100	2,800	2,800	2,200	2,900	3,500	3,300	3,200
Population Density															
Large MSA	3,400	3,700	3,500	4,100	4,700	4,300	4,300	4,300	3,700	4,000	3,900	4,300	4,900	5,000	4,900
Other MSA	7,400	7,300	7,600	7,500	8,200	7,500	7,300	7,000	6,700	6,700	6,700	6,800	7,800	7,800	7,600
Non-MSA	4,000	3,800	4,200	4,200	4,100	3,800	3,900	3,700	3,200	3,600	3,400	3,200	3,100	3,600	3,700
Parental Education															
1.0-2.0 (Low)	1,300	1,300	1,300	1,300	1,200	1,100	1,300	1,300	1,100	1,200	1,200	1,300	1,200	1,300	1,100
2.5–3.0	3,900	3,900	4,100	4,100	4,100	3,600	3,700	3,700	3,200	3,200	3,200	3,300	3,500	3,400	3,200
3.5-4.0	3,900	3,900	4,100	4,300	4,600	4,300	4,100	4,000	3,600	3,700	3,700	3,700	4,200	4,200	4,100
4.5–5.0	3,500	3,400	3,500	3,700	4,000	3,900	3,700	3,500	3,300	3,500	3,400	3,500	3,900	4,300	4,400
5.5-6.0 (High)	1,800	1,700	1,700	1,800	2,300	1,900	1,900	1,800	1,700	1,900	1,800	1,700	2,100	2,400	2,400
Race/Ethnicity (2-year average) <sup>a</sup>															
White	_	19,600	20,700	22,000	22,900	22,400	20,900	19,800	18,400	18,200	18,600	18,000	18,500	19,900	20,400
African American	_	3,900	3,600	3,300	3,300	3,100	3,200	3,600	3,600	3,100	2,800	3,400	4,600	4,600	4,300
Hispanic	_	2,600	2,700	2,800	2,900	3,000	3,200	3,500	3,200	3,100	3,400	3,600	3,600	3,500	3,500

Table continued on next page.

TABLE S2 (cont.)

Approximate Weighted N s by Subgroups in Grade 10

	2006	2007	2008	2009	2010	2011	2012	2013	2014	<u>2015</u>	<u>2016</u>	2017	2018
Total	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300
Gender													
Male	7,900	7,800	7,000	7,600	7,200	7,200	7,200	6,100	6,200	7,600	7,100	6,500	6,800
Female	8,000	7,900	7,700	8,000	7,700	7,400	7,500	6,500	6,400	7,600	7,200	6,600	7,000
College Plans													
None or under 4 years	1,800	1,800	1,600	1,500	1,600	1,500	1,300	1,300	1,200	1,400	1,400	1,400	1,800
Complete 4 years	14,100	14,000	13,200	14,100	13,400	13,200	13,400	11,400	11,500	13,900	12,900	11,700	12,000
Region													
Northeast	3,200	3,200	2,800	3,400	3,000	2,600	2,900	2,400	2,500	3,100	2,800	2,300	2,600
Midwest	4,300	3,900	3,600	3,700	3,700	3,800	3,800	3,200	3,000	3,600	3,200	3,100	3,300
South	5,300	5,100	4,800	5,200	5,200	5,100	4,900	4,100	4,400	5,500	5,100	4,800	5,200
West	3,400	3,900	3,900	3,600	3,300	3,400	3,400	3,200	3,100	3,400	3,600	3,300	3,100
Population Density													
Large MSA	5,100	5,200	4,700	5,200	5,200	4,900	4,700	3,800	4,500	5,100	4,800	4,200	4,600
Other MSA	7,900	7,600	7,300	7,300	6,600	6,600	7,100	6,400	6,000	7,600	7,300	6,600	6,800
Non-MSA	3,200	3,300	3,100	3,400	3,400	3,400	3,200	2,700	2,500	2,900	2,600	2,700	2,900
Parental Education													
1.0–2.0 (Low)	1,100	1,200	1,300	1,300	1,400	1,200	1,100	1,100	1,100	1,300	1,400	1,300	1,500
2.5–3.0	3,200	3,300	3,000	3,000	3,000	3,000	2,600	2,400	2,300	2,400	2,400	2,300	2,500
3.5–4.0	4,300	4,400	3,800	4,000	3,800	3,900	3,800	3,100	3,100	3,600	3,400	3,000	3,200
4.5–5.0	4,500	4,300	4,000	4,300	3,900	3,800	4,100	3,500	3,600	4,300	3,800	3,400	3,500
5.5–6.0 (High)	2,300	2,100	2,000	2,400	2,200	2,000	2,500	2,000	2,100	2,800	2,500	3,000	2,200
Race/Ethnicity (2-year average) <sup>a</sup>													
White	21,100	20,800	18,300	17,900	18,400	17,600	17,600	16,000	13,900	15,700	16,000	13,500	13,100
African American	3,900	3,400	3,600	3,600	3,400	3,200	3,100	2,900	2,900	3,000	3,300	3,700	3,800
Hispanic	3,300	3,800	4,500	4,500	4,600	4,500	4,100	4,100	4,300	4,400	5,100	5,300	5,400

Source. The Monitoring the Future study, the University of Michigan.

Notes. '—' indicates data not available. See appendix B for definition of variables in table.

Caution: The Ns in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these N s need to be adjusted appropriately.

Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.

<sup>a</sup>Ns for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE S3
Approximate Weighted Ns by Subgroups in Grade 12

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	1980	<u>1981</u>	1982	1983	1984	<u>1985</u>	1986	1987	1988	1989	1990
Total	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200
Gender																
Male	4,300	6,900	7,100	8,500	7,500	7,500	8,400	8,500	7,800	7,600	7,600	7,100	7,700	7,700	8,000	7,700
Female	5,200	7,000	7,600	9,000	8,000	7,800	8,600	8,600	8,000	7,800	8,000	7,700	8,200	8,200	8,300	7,100
College Plans																
None or under 4 years	_	6,500	6,700	8,100	6,800	6,300	6,700	7,200	6,300	5,900	5,600	5,100	5,000	4,700	4,800	4,200
Complete 4 years	_	6,800	7,200	8,600	8,000	8,500	9,700	9,200	8,800	8,900	9,300	9,100	10,300	10,600	11,000	10,100
Region																
Northeast	2,200	3,400	3,700	4,400	3,800	3,600	4,100	4,600	3,900	3,200	3,700	3,600	3,500	3,200	3,200	3,300
Midwest	2,900	4,500	4,600	5,200	4,800	4,700	5,300	5,200	4,600	4,500	4,400	4,300	4,400	4,300	4,500	4,200
South	3,000	4,300	4,600	6,000	4,800	4,800	5,300	5,300	5,200	5,300	4,900	4,700	5,200	5,600	6,100	5,000
West	1,400	2,200	2,200	2,500	2,600	2,700	2,800	2,600	2,600	2,900	3,000	2,600	3,200	3,200	2,900	2,700
Population Density																
Large MSA	2,100	3,700	4,000	4,600	4,000	3,900	4,500	4,800	4,200	4,100	4,200	3,700	4,200	4,400	4,000	3,800
Other MSA	4,000	5,700	6,200	8,000	6,800	6,700	7,100	7,300	6,800	6,900	6,900	7,000	8,000	7,700	8,800	7,700
Non-MSA	3,400	5,000	4,900	5,500	5,200	5,200	5,900	5,600	5,300	4,900	4,900	4,500	4,100	4,200	3,900	3,700
Parental Education																
1.0-2.0 (Low)	1,700	2,200	2,600	3,100	2,500	2,300	2,400	2,700	2,200	1,900	1,800	1,800	1,700	1,600	1,700	1,600
2.5–3.0	3,000	4,300	5,400	6,200	5,600	5,300	5,800	5,900	5,500	5,100	5,100	4,600	4,500	4,500	4,600	4,300
3.5–4.0	1,600	2,500	3,200	4,000	3,600	3,600	4,200	4,200	3,900	4,000	4,000	3,800	4,300	4,400	4,500	4,100
4.5–5.0	1,100	1,600	2,200	2,800	2,600	2,700	3,100	2,900	2,800	2,900	3,000	2,900	3,400	3,500	3,500	3,100
5.5-6.0 (High)	440	710	1,100	1,200	1,200	1,300	1,500	1,300	1,200	1,400	1,500	1,500	1,800	1,900	1,700	1,600
Race/Ethnicity (2-year average) <sup>a</sup>																
White	_	_	23,400	26,500	27,500	25,600	26,300	27,300	26,200	24,700	24,200	23,600	23,800	24,200	24,000	23,400
African American	_	_	3,300	3,700	3,500	3,500	4,000	4,000	3,900	4,000	4,000	3,500	3,200	3,600	3,900	3,500
Hispanic	_	_	890	1,000	940	740	930	1,300	1,300	1,200	1,200	1,500	1,900	2,100	2,400	2,500

Table continued on next page.

TABLE S3 (cont.) **Approximate Weighted** Ns by Subgroups in <u>Grade 12</u>

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005
Total	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700
Gender															
Male	7,400	7,400	7,500	6,900	7,200	6,700	7,100	7,100	6,300	5,800	5,800	5,800	6,600	6,800	6,800
Female	7,200	7,900	8,200	8,000	7,800	7,100	7,700	7,500	6,700	6,400	6,500	6,600	7,400	7,200	7,300
College Plans															
None or under 4 years	4,000	3,700	3,700	3,400	3,300	2,600	3,200	3,100	2,800	2,600	2,500	2,400	2,800	2,800	2,600
Complete 4 years	10,300	11,200	11,600	11,100	11,200	10,800	11,000	11,100	10,200	9,300	9,600	9,700	11,100	11,000	11,300
Region															
Northeast	2,800	2,800	2,700	2,700	2,800	3,000	3,300	2,800	2,500	2,500	2,400	2,500	3,100	3,100	2,900
Midwest	4,000	4,400	4,600	4,000	4,300	3,800	4,100	3,800	3,600	3,100	3,700	3,300	3,600	3,800	3,600
South	5,100	5,600	5,800	5,700	5,400	5,100	5,300	5,700	4,900	4,500	4,100	4,300	4,900	5,000	5,200
West	3,100	3,000	3,200	3,000	2,900	2,400	2,700	2,900	2,600	2,700	2,600	2,800	3,000	2,700	3,000
Population Density															
Large MSA	3,600	3,600	3,700	4,300	4,400	3,400	4,100	4,300	3,800	3,800	3,800	4,000	4,600	4,200	4,300
Other MSA	7,200	8,200	7,800	7,100	7,000	7,000	7,500	7,500	6,200	5,800	5,800	5,900	6,500	6,800	7,000
Non-MSA	4,200	4,000	4,800	4,000	4,000	3,900	3,800	3,400	3,600	3,200	3,200	3,000	3,500	3,600	3,400
Parental Education															
1.0-2.0 (Low)	1,500	1,400	1,600	1,400	1,200	1,100	1,300	1,200	960	860	1,000	980	1,200	1,000	1,100
2.5–3.0	4,100	4,100	4,300	3,700	3,700	3,300	3,600	3,700	3,200	3,000	2,900	2,800	3,400	3,400	3,200
3.5–4.0	4,200	4,600	4,500	4,300	4,400	3,800	4,100	4,300	3,900	3,600	3,600	3,800	4,200	4,000	3,900
4.5–5.0	3,100	3,400	3,600	3,500	3,700	3,500	3,500	3,300	3,200	3,100	3,200	3,100	3,400	3,600	3,600
5.5-6.0 (High)	1,500	1,700	1,700	1,800	1,800	2,100	2,100	2,000	1,800	1,600	1,600	1,500	1,800	2,000	2,100
Race/Ethnicity (2-year average) <sup>a</sup>															
White	21,900	21,500	22,000	21,800	21,600	20,700	19,800	20,200	19,500	17,700	16,200	16,300	17,800	19,600	19,600
African American	3,200	3,900	4,200	3,600	3,300	3,200	3,600	3,700	3,400	3,300	3,100	2,900	3,000	3,200	3,000
Hispanic	2,400	2,600	2,900	3,100	2,700	2,600	2,800	3,000	2,500	2,200	2,600	3,100	3,100	2,800	2,900

Table continued on next page.

TABLE S3 (cont.)

Approximate Weighted N s by Subgroups in Grade 12

	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	2018
Total	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300
Gender:													
Male	6,600	6,500	6,400	6,300	6,700	6,800	6,600	5,900	5,700	5,700	5,400	5,600	5,800
Female	7,100	7,400	6,900	6,700	7,100	6,700	6,600	6,100	6,100	6,300	5,600	6,100	6,400
College Plans													
None or under 4 years	2,500	2,400	2,300	2,100	2,100	2,100	2,100	2,200	2,000	1,900	1,900	2,000	2,300
Complete 4 years	11,000	11,300	10,800	10,800	11,300	11,200	10,900	9,700	9,600	10,200	9,100	9,700	9,700
Region													
Northeast	2,600	2,700	2,400	2,600	2,700	2,400	2,300	2,200	2,400	2,200	1,900	2,000	2,100
Midwest	3,500	3,200	3,500	3,500	3,200	3,400	3,600	3,100	2,500	2,700	2,500	2,800	3,000
South	5,200	5,500	5,000	4,800	5,400	5,100	4,400	4,300	4,700	5,100	4,700	4,800	5,100
West	2,900	3,100	3,100	2,800	3,100	3,200	3,400	3,000	2,800	2,900	2,700	3,000	3,100
Population Density													
Large MSA	4,700	4,700	3,700	3,900	4,200	4,300	4,300	3,800	3,500	4,100	3,700	4,300	4,600
Other MSA	6,200	6,600	7,100	6,900	7,300	6,900	6,700	6,200	6,300	6,300	5,700	5,700	6,000
Non-MSA	3,300	3,200	3,200	2,900	2,900	2,900	2,700	2,600	2,600	2,500	2,400	2,600	2,600
Parental Education													
1.0-2.0 (Low)	1,100	1,100	1,200	1,400	1,400	1,200	1,200	1,200	1,200	1,300	1,200	1,400	1,600
2.5-3.0	3,100	3,200	3,000	2,900	3,000	2,800	2,800	2,500	2,400	2,500	2,300	2,500	2,600
3.5-4.0	4,000	4,200	3,900	3,700	4,000	3,900	3,700	3,500	3,400	3,200	3,000	3,200	3,200
4.5-5.0	3,600	3,600	3,500	3,300	3,500	3,600	3,600	3,300	3,200	3,400	3,000	2,900	3,100
5.5-6.0 (High)	1,900	1,800	1,700	1,600	1,600	1,900	1,800	1,500	1,300	1,600	1,400	1,600	1,600
Race/Ethnicity (2-year average) <sup>a</sup>													
White	18,600	18,200	17,300	16,300	16,400	16,500	16,300	15,600	14,100	13,400	12,800	12,200	12,500
African American	3,000	3,200	3,500	3,100	3,000	3,400	3,200	2,700	2,800	3,300	3,400	3,200	2,800
Hispanic	3,500	3,700	4,000	4,400	4,500	4,000	3,700	3,900	4,000	4,200	4,000	4,500	5,700

Source. The Monitoring the Future study, the University of Michigan.

Notes. '—' indicates data not available. See appendix B for definition of variables in table.

Caution: The Ns in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these Ns need to be adjusted appropriately.

Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.

<sup>a</sup>Ns for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

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